

FILE COPY

**OLIN CORPORATION
RI ANALYTICAL - WILMINGTON
WIL-28
SF7934 & SF7935**

**CHECKED FOR COMPLETENESS
OF PARAMETERS ORDERED BY:**

[Signature]

**KATAHDIN ANALYTICAL SERVICES, INC.
600 TECHNOLOGY WAY
SCARBOROUGH, ME 04074**

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SAMPLE DATA PACKAGE

000001

**SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
OLIN CORPORATION
RI ANALYTICAL - WILMINGTON
WIL-28
SF7934 & SF7935**

Sample Receipt

The following samples were received on November 09, 2012 and were logged in under Katahdin Analytical Services work order number SF7934 and SF7935 for a due date of November 20, 2012.

<u>Sample No.</u>	<u>Sample Identification</u>
KATAHDIN SF7934-1	OLIN CORPORATION OC-SD-EDSD/SW7-XXX
SF7935-1	OC-GW-404S-XXX
SF7935-2	OC-GW-404M-XXX
SF7935-3	OC-GW-400BR-XXX
SF7935-4	OC-GW-400D-XXX
SF7935-5	OC-GW-404BR-XXX
SF7935-6	OC-GW-404D-XXX
SF7935-7	OC-GW-400S-XXX
SF7935-8	OC-GW-400M-XXX
SF7935-9	OC-GW-400M-DUP

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Ms. Jennifer Obrin**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of SDG WIL-28 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846 , 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA, and/or for the specific methods listed below or on the Report of Analysis.

Sample SF7935-8 was used for the matrix spike (MS) and matrix spike duplicate (MSD), as requested by the client.

8033M DMF Analysis

Sample WG116361-4 was analyzed as a duplicate of sample SF7934-1, as per the client's request of one duplicate sample per 20 samples.

Sample WG116399-4 was analyzed as a duplicate of sample SF7935-1, as per the client's request of one duplicate sample per 20 samples.

Samples SF7934-1, SF7935-1, 2, 3, 7, 8 and 9 were manually integrated for the extraction surrogate diethylformamide. The specific reasons for the manual integrations are indicated on the raw data by the manual integration codes (M1-M11). These codes are further explained in the attachment following this narrative.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Wet Chemistry Analysis

The samples of SDG WIL-28 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for total solids were performed according to "Annual Book of ASTM Standards", Method D2216-98 "Standard Test Method for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass".

All analyses were performed within analytical holding times. All quality control criteria were met.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Leslie Dimond

Leslie Dimond
Quality Assurance Officer

11.20.12

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Client: <u>Olin Corp.</u>	KAS PM: <u>JD</u>	Sampled By: <u>Client</u>
Project:	KIMS Entry By: <u>GN</u>	Delivered By: <u>Fed Ex</u>
KAS Work Order#: <u>SF7934 / SF7935</u>	KIMS Review By: <u>[Signature]</u>	Received By: <u>DM</u>
SDG #:	Cooler: <u>1</u> of <u>1</u>	Date/Time Rec.: <u>11-9-17 0905</u>

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	✓				
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): <u>0.3</u>
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals analysis.
Ice packs of <u>ice</u> present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?					Note: No cooling process required for metals analysis.
6. Volatiles free of headspace: Aqueous: No bubble larger than a pea Soil/Sediment: Received in airtight container?	✓			+	+ GV
Received in methanol?	✓			/	
Methanol covering soil?				/	
				/	
7. Trip Blank present in cooler?				X	
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2 Sulfide - >9 Cyanide – pH >12				/	
				/	
				/	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

Kutahadin - Water 1 of 3

Client: Olin Corporation **Client Project #:** 6107120016
Address: 3855 North Ocoee St. Suite 200 **Work Site ID:** Wilmington, MA
 Cleveland, TN 37312 **Reports Sent To:** James Cashwell
Phone: 423-336-4511 **Fax:** 423-336-1466 **Email:** [] **Email Rpt:** []
Requested Turnaround Time (SPECIFY): Regulatory Programs: MADEP MCP Superfund
 Standard: Rush (Lab Approval Required) Report Requirements: Level IV Package Level II Package
 EDD Requirements: MACTEC EQUIS EZ EDD

Sample ID	Date/Time Collected	Fraction (1)	QC Code (2)	Sample Matrix (3)	Composite (C) or Grab (G)	Total # of Containers	DMF (Mod 8033 - GC/NPD)	←Preservative Type (4)	←Bottle Type (5)	Comments (Special Instructions)
OC-GW-4045-XXX	11/6/12 1230	T FS	GW	G	Z		X			CTM
OC-GW-4047-XXX	11/6/12 1410	T BS	GW	G	Z		X			CTM
OC-GW-4008-XXX	11/7/12 0920	T BS	GW	G	Z		X			CTM
OC-GW-4009-XXX	11/7/12 1040	T FS	GW	G	Z		X			CTM
OC-GW-4048-XXX	11/7/12 1245	T BS	GW	G	Z		X			CTM

SF7935

Special Instructions For Lab

Notes:
 1.) Fraction: T = Total, D = Dissolved, S = SPLP, C = TCLP, N = Not Applicable
 2.) QC Codes: FS = Field Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike, MSD = Matrix Spike Duplicate, PE = Performance Evaluation Sample, FB = Field Blank
 3.) Sample Matrix: GW = Groundwater, SW = Surface Water, DW = Drinking Water, SO = Soil, SD = Sediment, BW = Blank Water, NAL = Non-Aqueous Liquid, PR = Product, O = Oil
 4.) Preservation Type: HA = Hydrochloric Acid, NI = Nitric Acid, SA = Sulfuric Acid, SH = Sodium Hydroxide, Zn = Zinc Acetate, ME = Methanol, DI = DI Water
 5.) Bottle Type: G = Glass, P = Plastic, V = 40mL VOA Glass Vial, AG = Amber Glass, AV = 40mL VOA Amber Glass Vial,
 Cr+6 = 24 hour hold time
 Formaldehyde = 3 day hold time

Relinquished: [Signature] **Date:** 11/8/12 **Time:** 1600 **Received:** Felix **Date:** 11/8/12 **Time:** []
Relinquished: [Signature] **Date:** 11/9/12 **Time:** [] **Received:** [Signature] **Date:** 11/9/12 **Time:** []

0000007

COOPERMAN MADEP REGULATION
 SAMPLE RECEIVED
 TEMPERATURE
 PRESERVATION / D / H / C
 BY: [] Date: []

Nov. 10, 2012

12:22 PM

Quote/Incoming: OLWIL

Login Number: SF7934

Account: OLINCO001

Olin Corporation

Web

Login Information:

ANALYSIS INSTRUCTIONS : Batch as many as possible. See special acceptance limits in QAPP. Include Lab Dup as batch QC, 1:20.

CHECK NO. :
CLIENT PO# : REWI0021 CONTRACT-ERRE9844

CLIENT PROJECT MANAGE :

CONTRACT :

COOLER TEMPERATURE : 0.3

DELIVERY SERVICES : Client

EDD FORMAT : KAS075-CSV

LOGIN INITIALS : GN

PM : JO

PROJECT NAME : RI Analytical - Wilmington

QC LEVEL : IV

REGULATORY LIST :

REPORT INSTRUCTIONS : Merge results. Data summary needs all forms. Send full CDs to K. Chatterton, C. Ricardi and James Cashwell.

SDG ID : WIL-28

SDG STATUS : Begin

Primary Report Address:

Mr. Chris Ricardi
AMEC E&I
P.O. Box 7050 DTS

Portland, ME 04112-7050

Primary Invoice Address:

Christian Ricardi@amec.com
Olin Corporatin
Angela Goodner
3855 North Ocoee St
Suite 200
Cleveland, TN 37310

Report CC Addresses:

Mr. James Cashwell
Olin Corporation
3855 North Ocoee St
Suite 200
Cleveland, TN 37312

Ms. Kelly Chatterton
AMEC E&I
107 Audubon Rd.
Suite 301
Wakefield, MA 01880

Invoice CC Addresses:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	Verbal Date	Due Date	Mailed
SF7934-1	OC-SD-EDSD/SW7-XXX	06-NOV-12 09:55	09-NOV-12		20-NOV-12	
Matrix	Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments	
Solid	S SW8033M	20-NOV-12	4oz Glass	1		
Solid	S TS	06-DEC-12	4oz Glass			

Total Samples: 1

Total Analyses: 2

98
11-10-12

0000010

Nov. 10, 2012

12:29 PM

Quote/Incoming: OLWIL

Login Number: SF7935

Account: OLINCO001

Olin Corporation

Project:

Web

Login Information:

ANALYSIS INSTRUCTIONS : Batch as many as possible. See special acceptance limits in QAPP. Include Lab Dup as batch QC, 1:20.

CHECK NO. :
CLIENT PO# : REWI0021 CONTRACT-ERRE9844

CLIENT PROJECT MANAGE :

CONTRACT :

COOLER TEMPERATURE : 0.3

DELIVERY SERVICES : Fedex

EDD FORMAT : KAS075-CSV

LOGIN INITIALS : GN

PM : JO

PROJECT NAME : RI Analytical - Wilmington

QC LEVEL : IV

REGULATORY LIST :

REPORT INSTRUCTIONS : Merge results. Data summary needs all forms. Send full CDs to K. Chatterton, C. Ricardi and James Cashwell.

SDG ID : WIL-28

SDG STATUS : End

Primary Report Address:

Mr. Chris Ricardi
AMEC E&I
P.O. Box 7050 DTS

Portland, ME 04112-7050

Primary Invoice Address:

Christian Ricardi@amec.com
Olin Corporatin
Angela Goodner
3855 North Ocoee St
Suite 200
Cleveland, TN 37310

Report CC Addresses:

Mr. James Cashwell
Olin Corporation
3855 North Ocoee St
Suite 200
Cleveland, TN 37312

Ms. Kelly Chatterton
AMEC E&I
107 Audubon Rd.
Suite 301
Wakefield, MA 01880

Invoice CC Addresses:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SF7935-1	OC-GW-404S-XXX	06-NOV-12 12:30	09-NOV-12			20-NOV-12	
<i>Matrix</i>	<i>Product</i>	<i>Hold Date (shortest)</i>	<i>Bottle Type</i>		<i>Bottle Count</i>	<i>Comments</i>	
Aqueous	S SW8033M	20-NOV-12	40mL Vial+HCl				
SF7935-2	OC-GW-404M-XXX	06-NOV-12 14:10	09-NOV-12			20-NOV-12	
<i>Matrix</i>	<i>Product</i>	<i>Hold Date (shortest)</i>	<i>Bottle Type</i>		<i>Bottle Count</i>	<i>Comments</i>	
Aqueous	S SW8033M	20-NOV-12	40mL Vial+HCl				
SF7935-3	OC-GW-400BR-XXX	07-NOV-12 09:20	09-NOV-12			20-NOV-12	
<i>Matrix</i>	<i>Product</i>	<i>Hold Date (shortest)</i>	<i>Bottle Type</i>		<i>Bottle Count</i>	<i>Comments</i>	
Aqueous	S SW8033M	21-NOV-12	40mL Vial+HCl				
SF7935-4	OC-GW-400D-XXX	07-NOV-12 10:40	09-NOV-12			20-NOV-12	
<i>Matrix</i>	<i>Product</i>	<i>Hold Date (shortest)</i>	<i>Bottle Type</i>		<i>Bottle Count</i>	<i>Comments</i>	
Aqueous	S SW8033M	21-NOV-12	40mL Vial+HCl				

OP
11.10.12

0000011

Login Number: SF7935

Quote/Incoming: OLWIL

Account: OLINCO001

Web

Olin Corporation

Project:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SF7935-5	OC-GW-404BR-XXX	07-NOV-12 12:45	09-NOV-12			20-NOV-12	
<i>Matrix</i> Aqueous	<i>Product</i> S SW8033M	<i>Hold Date (shortest)</i> 21-NOV-12	<i>Bottle Type</i> 40mL Vial+HCl			<i>Bottle Count</i>	<i>Comments</i>
SF7935-6	OC-GW-404D-XXX	07-NOV-12 14:05	09-NOV-12			20-NOV-12	
<i>Matrix</i> Aqueous	<i>Product</i> S SW8033M	<i>Hold Date (shortest)</i> 21-NOV-12	<i>Bottle Type</i> 40mL Vial+HCl			<i>Bottle Count</i>	<i>Comments</i>
SF7935-7	OC-GW-400S-XXX	08-NOV-12 09:00	09-NOV-12			20-NOV-12	
<i>Matrix</i> Aqueous	<i>Product</i> S SW8033M	<i>Hold Date (shortest)</i> 22-NOV-12	<i>Bottle Type</i> 40mL Vial+HCl			<i>Bottle Count</i>	<i>Comments</i>
SF7935-8	OC-GW-400M-XXX	08-NOV-12 10:20	09-NOV-12			20-NOV-12	
<i>Matrix</i> Aqueous	<i>Product</i> S SW8033M	<i>Hold Date (shortest)</i> 22-NOV-12	<i>Bottle Type</i> 40mL Vial+HCl			<i>Bottle Count</i>	<i>Comments</i> MS/MSD
SF7935-9	OC-GW-400M-DUP	08-NOV-12 10:20	09-NOV-12			20-NOV-12	
<i>Matrix</i> Aqueous	<i>Product</i> S SW8033M	<i>Hold Date (shortest)</i> 22-NOV-12	<i>Bottle Type</i> 40mL Vial+HCl			<i>Bottle Count</i>	<i>Comments</i>

Total Samples: 9
Total Analyses: 9

 90
 11-10-12

0000012

SAMPLE DATA SUMMARY PACKAGE

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS
(Refer to BOD Qualifiers Page for BOD footnotes)

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

I-7 The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 Please refer to cover letter or narrative for further information.

MCL Maximum Contaminant Level

NL No limit

NFL No Free Liquid Present

FLP Free Liquid Present

NOD No Odor Detected

TON Threshold Odor Number

H_ Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 pH
H2 DO
H3 sulfite
H4 residual chlorine

T1 The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: RI Analytical - Wilmington
PO No:
Sample Date: 11/06/12
Received Date: 11/09/12
Extraction Date: 11/12/12
Analysis Date: 13-NOV-2012 20:10
Report Date: 11/20/2012
Matrix: SOIL
% Solids: 80.9

Lab ID: SF7934-1
Client ID: OC-SD-EDSD/SW7-XXX
SDG: WIL-28
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG116361
Units: mg/Kgdrywt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.23	1.0	0.20	0.23	0.15
	diethylformamide		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: RI Analytical - Wilmington
PO No:
Sample Date: 11/06/12
Received Date: 11/09/12
Extraction Date: 11/12/12
Analysis Date: 13-NOV-2012 19:55
Report Date: 11/20/2012
Matrix: SOIL
% Solids: 80.9

Lab ID: WG116361-4
Client ID: OC-SD-EDSD/SW7-XXX
SDG: WIL-28
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG116361
Units: mg/Kgdrywt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.20	1.0	0.20	0.20	0.13
	diethylformamide		80%				

Page 01 of 01 6FK1046.d

Report of Analytical Results

Client: Olin Corporation
Lab ID: SF7935-1
Client ID: OC-GW-404S-XXX
Project: RI Analytical - Wilmington
SDG: WIL-28
Lab File ID: 6FK1022.D

Sample Date: 06-NOV-12
Received Date: 09-NOV-12
Extract Date: 13-NOV-12
Extracted By: JLP
Extraction Method: SW846 8033M
Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
Analyst: JLP
Analysis Method: SW846 8033M
Matrix: AQ
% Solids: NA
Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		94.4	%				

Report of Analytical Results

Client:
Lab ID: WG116399-4
Client ID: Sample Duplicate
Project:
SDG: WIL-28
Lab File ID: 6FK1021.D

Sample Date:
Received Date:
Extract Date: 13-NOV-12
Extracted By: JLP
Extraction Method: SW846 8033M
Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
Analyst: JLP
Analysis Method: SW846 8033M
Matrix: AQ
% Solids: NA
Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		110.	%				

Report of Analytical Results

Client: Olin Corporation
Lab ID: SF7935-2
Client ID: OC-GW-404M-XXX
Project: RI Analytical - Wilmington
SDG: WIL-28
Lab File ID: 6FK1023.D

Sample Date: 06-NOV-12
Received Date: 09-NOV-12
Extract Date: 13-NOV-12
Extracted By: JLP
Extraction Method: SW846 8033M
Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
Analyst: JLP
Analysis Method: SW846 8033M
Matrix: AQ
% Solids: NA
Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		93.8	%				

Report of Analytical Results

Client: Olin Corporation
 Lab ID: SF7935-4
 Client ID: OC-GW-400D-XXX
 Project: RI Analytical - Wilmington
 SDG: WIL-28
 Lab File ID: 6FK1025.D

Sample Date: 07-NOV-12
 Received Date: 09-NOV-12
 Extract Date: 13-NOV-12
 Extracted By: JLP
 Extraction Method: SW846 8033M
 Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
 Analyst: JLP
 Analysis Method: SW846 8033M
 Matrix: AQ
 % Solids: NA
 Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		99.2	%				

Report of Analytical Results

Client: Olin Corporation
Lab ID: SF7935-5
Client ID: OC-GW-404BR-XXX
Project: RI Analytical - Wilmington
SDG: WIL-28
Lab File ID: 6FK1026.D

Sample Date: 07-NOV-12
Received Date: 09-NOV-12
Extract Date: 13-NOV-12
Extracted By: JLP
Extraction Method: SW846 8033M
Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
Analyst: JLP
Analysis Method: SW846 8033M
Matrix: AQ
% Solids: NA
Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		100.	%				

Report of Analytical Results

Client: Olin Corporation
Lab ID: SF7935-6
Client ID: OC-GW-404D-XXX
Project: RI Analytical - Wilmington
SDG: WIL-28
Lab File ID: 6FK1027.D

Sample Date: 07-NOV-12
Received Date: 09-NOV-12
Extract Date: 13-NOV-12
Extracted By: JLP
Extraction Method: SW846 8033M
Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
Analyst: JLP
Analysis Method: SW846 8033M
Matrix: AQ
% Solids: NA
Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		101.	%				

Report of Analytical Results

Client: Olin Corporation
Lab ID: SF7935-7
Client ID: OC-GW-400S-XXX
Project: RI Analytical - Wilmington
SDG: WIL-28
Lab File ID: 6FK1030.D

Sample Date: 08-NOV-12
Received Date: 09-NOV-12
Extract Date: 13-NOV-12
Extracted By: JLP
Extraction Method: SW846 8033M
Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
Analyst: JLP
Analysis Method: SW846 8033M
Matrix: AQ
% Solids: NA
Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		104.	%				

Report of Analytical Results

Client: Olin Corporation
 Lab ID: SF7935-8
 Client ID: OC-GW-400M-XXX
 Project: RI Analytical - Wilmington
 SDG: WIL-28
 Lab File ID: 6FK1031.D

Sample Date: 08-NOV-12
 Received Date: 09-NOV-12
 Extract Date: 13-NOV-12
 Extracted By: JLP
 Extraction Method: SW846 8033M
 Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
 Analyst: JLP
 Analysis Method: SW846 8033M
 Matrix: AQ
 % Solids: NA
 Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		97.6	%				

Report of Analytical Results

Client: Olin Corporation
 Lab ID: SF7935-9
 Client ID: OC-GW-400M-DUP
 Project: RI Analytical - Wilmington
 SDG: WIL-28
 Lab File ID: 6FK1032.D

Sample Date: 08-NOV-12
 Received Date: 09-NOV-12
 Extract Date: 13-NOV-12
 Extracted By: JLP
 Extraction Method: SW846 8033M
 Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
 Analyst: JLP
 Analysis Method: SW846 8033M
 Matrix: AQ
 % Solids: NA
 Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		107.	%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: RI Analytical - Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date: 11/12/12
Analysis Date: 13-NOV-2012 18:57
Report Date: 11/20/2012
Matrix: SOIL
% Solids: 100

Lab ID: WG116361-1
Client ID: WG116361-Blank
SDG: WIL-28
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG116361
Units: mg/Kgdrywt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.20	1.0	0.20	0.20	0.13
	diethylformamide		84%				

Page 01 of 01 6FK1042.d

Report of Analytical Results

Client:
Lab ID: WG116399-1
Client ID: Method Blank Sample
Project:
SDG: WIL-28
Lab File ID: 6FK1017.D

Sample Date:
Received Date:
Extract Date: 13-NOV-12
Extracted By: JLP
Extraction Method: SW846 8033M
Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
Analyst: JLP
Analysis Method: SW846 8033M
Matrix: AQ
% Solids: NA
Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		103.	%				

FORM 2
SOIL DMF SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON

SDG No.: WIL-28

Level: (low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 #	SMC2 #	SMC3 #	SMC4	TOT OUT
01	WG116361-BLANK	WG116361-1	84				0
02	WG116361-LCS	WG116361-2	97				0
03	WG116361-LCSD	WG116361-3	91				0
04	OC-SD-EDSD/SW7-XXX	WG116361-4	80				0
05	OC-SD-EDSD/SW7-XXX	SF7934-1	84				0
06							
07							
08							
09							
10							
11							
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27							
28							

SMC1 = diethylformamide QC LIMITS
(70-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Form 2

System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services
 Lab Code: KAS

Project: RI Analytical - Wilmington
 SDG: WIL-28

Matrix: AQ

Client Sample ID	Lab Sample ID	Col. ID	DEF	#
OC-GW-404S-XXX	SF7935-1	A		94.4
OC-GW-404M-XXX	SF7935-2	A		93.8
OC-GW-400BR-XXX	SF7935-3	A		100.
OC-GW-400D-XXX	SF7935-4	A		99.2
OC-GW-404BR-XXX	SF7935-5	A		100.
OC-GW-404D-XXX	SF7935-6	A		101.
OC-GW-400S-XXX	SF7935-7	A		104.
OC-GW-400M-XXX	SF7935-8	A		97.6
OC-GW-400M-DUP	SF7935-9	A		107.
Method Blank Sample	WG116399-1	A		103.
Laboratory Control S	WG116399-2	A		99.0
Laboratory Control S	WG116399-3	A		108.
Sample Duplicate	WG116399-4	A		110.
Matrix Spike	WG116399-5	A		94.8
Matrix Spike Duplica	WG116399-6	A		102.

QC Limits
 70-130

DEF DIETHYLFORMAMIDE

= Column to be used to flag recovery limits.
 * = Values outside of contract required QC limits.
 D= System Monitoring Compound diluted out.

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:	Lab ID: WG116361-2& WG116361-3
Project: RI Analytical - Wilmington	Client ID: WG116361-LCS & WG116361-LCSD
PO No:	SDG: WIL-28
Sample Date:	Extracted by: JLP
Received Date:	Extraction Method: 8033M
Extraction Date: 11/12/12	Analyst: JLP
Analysis Date: 11/13/12	Analysis Method: SW846 8033M
Report Date: 11/20/2012	Lab Prep Batch: WG116361
Matrix: SOIL	Units: mg/Kgdrywt

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
dimethylformamide	10	10	NA	8.4	8.1	84	81	4	50	70-130

LCS/LCSD Recovery Report

LCS ID: WG116399-2
LCSD ID: WG116399-3
Project:
SDG: WIL-28
Report Date: 20-NOV-12
LCS File ID: 6FK1018.D

Received Date:
Extract Date: 13-NOV-12
Extracted By: JLP
Extraction Method: SW846 8033M
Lab Prep Batch: WG116399
LCSD File ID: 6FK1019.D

Analysis Date: 13-NOV-12
Analyst: JLP
Analysis Method: SW846 8033M
Matrix: AQ
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Dimethylformamide	0.100	0.0920	92.0	0.108	108.	mg/L	16	30	70-130
Diethylformamide			99.0		108.				70-130

MS/MSD Recovery Report

MS ID: WG116399-5
MSD ID: WG116399-6
Sample ID: SF7935-8
Client ID: OC-GW-400M-XXX
Project:
SDG: WIL-28
MS File ID: 6FK1033.D

Received Date: 09-NOV-12
Extract Date: 13-NOV-12
Extracted By: JLP
Extraction Method: SW846 8033M
Lab Prep Batch: WG116399
Report Date: 20-NOV-12
MSD File ID: 6FK1034.d

Analysis Date: 13-NOV-12
Analyst: JLP
Analysis Method: SW846 8033M
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Dimethylformamide	0.100	0.100	mg/L	U0.020	0.078	0.094	78.3	93.9	18	30	70-130
Diethylformamide							94.8	102.			70-130

WG116361-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON SDG No.: WIL-28

Lab File ID: 6FK1042 Lab Sample ID: WG116361-1

Date Analyzed: 11/13/12 Time Analyzed: 1857

GC Column: STABILWAX ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: GC06

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG116361-LCS	WG116361-2	6FK1043	11/13/12	1912
02	WG116361-LCSD	WG116361-3	6FK1044	11/13/12	1926
03	OC-SD-EDSD/SW7-XXX	WG116361-4	6FK1046	11/13/12	1955
04	OC-SD-EDSD/SW7-XXX	SF7934-1	6FK1047	11/13/12	2010
05					
06					
07					
08					
09					
10					
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29					
30					

COMMENTS:

Form 4 Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : RI Analytical - Wilmington
Lab File ID : 6FK1017.D
Instrument ID : GC06
Heated Purge : No

SDG : WIL-28
Lab Sample ID : WG116399-1
Date Analyzed : 13-NOV-12
Time Analyzed : 12:48

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG116399-2	6FK1018.D	11/13/12	13:03
Laboratory Control S	WG116399-3	6FK1019.D	11/13/12	13:18
Sample Duplicate	WG116399-4	6FK1021.D	11/13/12	13:51
OC-GW-404S-XXX	SF7935-1	6FK1022.D	11/13/12	14:06
OC-GW-404M-XXX	SF7935-2	6FK1023.D	11/13/12	14:20
OC-GW-400BR-XXX	SF7935-3	6FK1024.D	11/13/12	14:35
OC-GW-400D-XXX	SF7935-4	6FK1025.D	11/13/12	14:50
OC-GW-404BR-XXX	SF7935-5	6FK1026.D	11/13/12	15:04
OC-GW-404D-XXX	SF7935-6	6FK1027.D	11/13/12	15:19
OC-GW-400S-XXX	SF7935-7	6FK1030.D	11/13/12	16:03
OC-GW-400M-XXX	SF7935-8	6FK1031.D	11/13/12	16:17
OC-GW-400M-DUP	SF7935-9	6FK1032.D	11/13/12	16:32
Matrix Spike	WG116399-5	6FK1033.D	11/13/12	16:46
Matrix Spike Duplica	WG116399-6	6FK1034.D	11/13/12	17:01

FORM 6
DMF INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project RI ANALYTICAL - WILMINGTON SDG No.: WIL-28

Instrument ID: GC06 Calibration Date(s): 11/13/12 11/13/12

Column: STABILWAX ID: 0.53 (mm) Calibration Time(s): 1017 1204

LAB FILE ID: RF0.02: 6FK1008 RF0.05: 6FK1009 RF0.1: 6FK1010

RF0.25: 6FK1011 RF0.5: 6FK1012 RF1: 6FK1014

COMPOUND	RF						CURVE	COEFFICIENTS		OR R ²	MAX %RSD
	RF0.02	RF0.05	RF0.1	RF0.25	RF0.5	RF1		A0	A1		
dimethylformamide	256		950	3330	6910	14839	LINEAR	1.477e-002	6.728e-005	0.99793	0.99000
diethylformamide	2398	5720	10873	28690	47512		LINEAR	3.78e-002	8.418e-005	0.99942	0.99000

FORM VI DMF

FORM 6
DMF INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project RI ANALYTICAL - WILMINGTON SDG No.: WIL-28

Instrument ID: GC06 Calibration Date(s): 11/13/12 11/13/12

Column: STABILWAX ID: 0.53 (mm) Calibration Time(s): 1017 1204

RF0.005: 6FK1007

COMPOUND	RF0.005	CURVE	COEFFICIENTS		%RSD		MAX %RSD
			A0	A1	OR R^2	OR R^2	
dimethylformamide	48	LINR	1.477e-002	6.728e-005	0.99793	0.99000	
diethylformamide	859	LINR	3.78e-002	8.418e-005	0.99942	0.99000	

FORM VI DMF

Form 7

Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : RI Analytical - Wilmington
Lab ID : WG116399-14
Lab File ID : 6FK1028.d
Initial Calibration Date(s): 11/13/12 10:17 11/13/12 12:04

SDG: WIL-28
Analytical Date: 11/13/12 15:33
Instrument ID: GC06
Column ID: A

Compound	RRF/Amount	RF0.250	CCAL RRF0.250	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
1 dimethylformamide	0.25000	0.22777	12664	0.010	-8.89230	25.00000	Linear
2 diethylformamide	2.50000	2.62373	12288	0.010	4.94907	25.00000	Linear

* = Compound out of QC criteria

Form 7

Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : RI Analytical - Wilmington
Lab ID : WG116399-15
Lab File ID : 6FK1040.d
Initial Calibration Date(s): 11/13/12 10:17 11/13/12 12:04

SDG: WIL-28
Analytical Date: 11/13/12 18:28
Instrument ID: GC06
Column ID: A

Compound	RRF/Amount	RF0.250	CCAL RRF0.250	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
1 dimethylformamide	0.25000	0.20658	11404	0.010	-17.36929	25.00000	Linear
2 diethylformamide	2.50000	2.52709	11829	0.010	1.08365	25.00000	Linear

* = Compound out of QC criteria

Form 7

Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : RI Analytical - Wilmington
Lab ID : WG116399-16
Lab File ID : 6FK1048.d
Initial Calibration Date(s): 11/13/12 10:17 11/13/12 12:04

SDG: WIL-28
Analytical Date: 11/13/12 20:24
Instrument ID: GC06
Column ID: A

Compound	RRF/Amount	RF0.250	CCAL RRF0.250	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
1 dimethylformamide	0.25000	0.19480	10704	0.010	-22.07873	25.00000	Linear
2 diethylformamide	2.50000	2.48004	11605	0.010	-0.79856	25.00000	Linear

* = Compound out of QC criteria

Form 8

GC Analytical Sequence

Lab Name : Katahdin Analytical Services
Project : RI Analytical - Wilmington
Instrument ID : GC06

SDG : WIL-28
Column ID : A

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed		
Initial Calibration	WG116399-7	11/13/12	10:17	2.666	
Initial Calibration	WG116399-8	11/13/12	10:37	2.64	
Initial Calibration	WG116399-9	11/13/12	10:52	2.64	
Initial Calibration	WG116399-10	11/13/12	11:06	2.653	
Initial Calibration	WG116399-11	11/13/12	11:21	2.64	
Initial Calibration	WG116399-12	11/13/12	11:35	2.666	
Initial Calibration	WG116399-13	11/13/12	12:04		
Method Blank Sample	WG116399-1	11/13/12	12:48	2.653	
Laboratory Control S	WG116399-2	11/13/12	13:03	2.666	
Laboratory Control S	WG116399-3	11/13/12	13:18	2.653	
Sample Duplicate	WG116399-4	11/13/12	13:51	2.653	
OC-GW-404S-XXX	SF7935-1	11/13/12	14:06	2.666	
OC-GW-404M-XXX	SF7935-2	11/13/12	14:20	2.653	
OC-GW-400BR-XXX	SF7935-3	11/13/12	14:35	2.666	
OC-GW-400D-XXX	SF7935-4	11/13/12	14:50	2.653	
OC-GW-404BR-XXX	SF7935-5	11/13/12	15:04	2.653	
OC-GW-404D-XXX	SF7935-6	11/13/12	15:19	2.653	
Continuing Calibrati	WG116399-14	11/13/12	15:33	2.666	
OC-GW-400S-XXX	SF7935-7	11/13/12	16:03	2.653	
OC-GW-400M-XXX	SF7935-8	11/13/12	16:17	2.666	
OC-GW-400M-DUP	SF7935-9	11/13/12	16:32	2.666	
Matrix Spike	WG116399-5	11/13/12	16:46	2.653	
Matrix Spike Duplica	WG116399-6	11/13/12	17:01	2.653	
Continuing Calibrati	WG116399-15	11/13/12	18:28	2.64	

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON SDG No.: WIL-28

GC Column: STABILWAX ID: 0.53 (mm) Init. Calib. Date(s): 11/13/12 11/13/12

Instrument ID: GC06

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION							
S1 : 2.64							
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#	RT	#
01	WG116361-BLANK	WG116361-1	11/13/12	1857	2.64		
02	WG116361-LCS	WG116361-2	11/13/12	1912	2.65		
03	WG116361-LCSD	WG116361-3	11/13/12	1926	2.64		
04	OC-SD-EDSD/SW7-XXX	WG116361-4	11/13/12	1955	2.65		
05	OC-SD-EDSD/SW7-XXX	SF7934-1	11/13/12	2010	2.64		
06	CONTINUING CALIBRATION	WG116399-16	11/13/12	2024	2.65		
07							
08							
09							
10							
11							
12							
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14							
15							
16							
17							
18							
19							
20							

QC LIMITS
S1 = diethylformamide (+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Report of Analytical Results

Client: Mr. Chris Ricardi
 AMEC E&I
 P.O. Box 7050 DTS
 Portland, ME 04112-7050

Lab Sample ID: SF7934-1
 Report Date: 15-NOV-12
 Client PO: REWI0021 CONTRACT-ERRE9844
 Project: RI Analytical - Wilmington
 SDG: WIL-28

Sample Description
 OC-SD-EDSD/SW7-XXX

Matrix Date Sampled Date Received
 SL 06-NOV-12 09-NOV-12

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	81. %	1		SM2540G	WG116391	14-NOV-12 13:15:36	ASTM D2216	14-NOV-12	KP	

DIMETHYLFORMAMIDE DATA

QC Summary Section

FORM 2
SOIL DMF SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES

Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON

SDG No.: WIL-28

Level: (low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	SMC1 #	SMC2 #	SMC3 #	SMC4	TOT OUT
01	WG116361-BLANK	WG116361-1	84				0
02	WG116361-LCS	WG116361-2	97				0
03	WG116361-LCSD	WG116361-3	91				0
04	OC-SD-EDSD/SW7-XXX	WG116361-4	80				0
05	OC-SD-EDSD/SW7-XXX	SF7934-1	84				0
06							
07							
08							
09							
10							
11							
12							
13							
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21							
22							
23							
24							
25							
26							
27							
28							

SMC1 = diethylformamide QC LIMITS
(70-130)

- # Column to be used to flag recovery values
- * Values outside of contract required QC limits
- D System Monitoring Compound diluted out

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services
Lab Code: KAS

Project: RI Analytical - Wilmington
SDG: WIL-28

Matrix: AQ

Client Sample ID	Lab Sample ID	Col. ID DEF	#
OC-GW-404S-XXX	SF7935-1	A	94.4
OC-GW-404M-XXX	SF7935-2	A	93.8
OC-GW-400BR-XXX	SF7935-3	A	100.
OC-GW-400D-XXX	SF7935-4	A	99.2
OC-GW-404BR-XXX	SF7935-5	A	100.
OC-GW-404D-XXX	SF7935-6	A	101.
OC-GW-400S-XXX	SF7935-7	A	104.
OC-GW-400M-XXX	SF7935-8	A	97.6
OC-GW-400M-DUP	SF7935-9	A	107.
Method Blank Sample	WG116399-1	A	103.
Laboratory Control S	WG116399-2	A	99.0
Laboratory Control S	WG116399-3	A	108.
Sample Duplicate	WG116399-4	A	110.
Matrix Spike	WG116399-5	A	94.8
Matrix Spike Duplica	WG116399-6	A	102.

QC Limits
70-130

DEF DIETHYLFORMAMIDE

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

WG116361-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON SDG No.: WIL-28

Lab File ID: 6FK1042 Lab Sample ID: WG116361-1

Date Analyzed: 11/13/12 Time Analyzed: 1857

GC Column: STABILWAX ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: GC06

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG116361-LCS	WG116361-2	6FK1043	11/13/12	1912
02	WG116361-LCSD	WG116361-3	6FK1044	11/13/12	1926
03	OC-SD-EDSD/SW7-XXX	WG116361-4	6FK1046	11/13/12	1955
04	OC-SD-EDSD/SW7-XXX	SF7934-1	6FK1047	11/13/12	2010
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

Form 4 Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : RI Analytical - Wilmington
Lab File ID : 6FK1017.D
Instrument ID : GC06
Heated Purge : No

SDG : WIL-28
Lab Sample ID : WG116399-1
Date Analyzed : 13-NOV-12
Time Analyzed : 12:48

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG116399-2	6FK1018.E	11/13/12	13:03
Laboratory Control S	WG116399-3	6FK1019.E	11/13/12	13:18
Sample Duplicate	WG116399-4	6FK1021.E	11/13/12	13:51
OC-GW-404S-XXX	SF7935-1	6FK1022.E	11/13/12	14:06
OC-GW-404M-XXX	SF7935-2	6FK1023.E	11/13/12	14:20
OC-GW-400BR-XXX	SF7935-3	6FK1024.E	11/13/12	14:35
OC-GW-400D-XXX	SF7935-4	6FK1025.E	11/13/12	14:50
OC-GW-404BR-XXX	SF7935-5	6FK1026.E	11/13/12	15:04
OC-GW-404D-XXX	SF7935-6	6FK1027.E	11/13/12	15:19
OC-GW-400S-XXX	SF7935-7	6FK1030.E	11/13/12	16:03
OC-GW-400M-XXX	SF7935-8	6FK1031.E	11/13/12	16:17
OC-GW-400M-DUP	SF7935-9	6FK1032.E	11/13/12	16:32
Matrix Spike	WG116399-5	6FK1033.E	11/13/12	16:46
Matrix Spike Duplica	WG116399-6	6FK1034.E	11/13/12	17:01

Form 8

GC Analytical Sequence

Lab Name : Katahdin Analytical Services
Project : RI Analytical - Wilmington
Instrument ID : GC06

SDG : WIL-28
Column ID : A

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed		
Initial Calibration	WG116399-7	11/13/12	10:17	2.666	
Initial Calibration	WG116399-8	11/13/12	10:37	2.64	
Initial Calibration	WG116399-9	11/13/12	10:52	2.64	
Initial Calibration	WG116399-10	11/13/12	11:06	2.653	
Initial Calibration	WG116399-11	11/13/12	11:21	2.64	
Initial Calibration	WG116399-12	11/13/12	11:35	2.666	
Initial Calibration	WG116399-13	11/13/12	12:04		
Method Blank Sample	WG116399-1	11/13/12	12:48	2.653	
Laboratory Control S	WG116399-2	11/13/12	13:03	2.666	
Laboratory Control S	WG116399-3	11/13/12	13:18	2.653	
Sample Duplicate	WG116399-4	11/13/12	13:51	2.653	
OC-GW-404S-XXX	SF7935-1	11/13/12	14:06	2.666	
OC-GW-404M-XXX	SF7935-2	11/13/12	14:20	2.653	
OC-GW-400BR-XXX	SF7935-3	11/13/12	14:35	2.666	
OC-GW-400D-XXX	SF7935-4	11/13/12	14:50	2.653	
OC-GW-404BR-XXX	SF7935-5	11/13/12	15:04	2.653	
OC-GW-404D-XXX	SF7935-6	11/13/12	15:19	2.653	
Continuing Calibrati	WG116399-14	11/13/12	15:33	2.666	
OC-GW-400S-XXX	SF7935-7	11/13/12	16:03	2.653	
OC-GW-400M-XXX	SF7935-8	11/13/12	16:17	2.666	
OC-GW-400M-DUP	SF7935-9	11/13/12	16:32	2.666	
Matrix Spike	WG116399-5	11/13/12	16:46	2.653	
Matrix Spike Duplica	WG116399-6	11/13/12	17:01	2.653	
Continuing Calibrati	WG116399-15	11/13/12	18:28	2.64	

FORM 8
DMF ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: RI ANALYTICAL - WILMINGTON SDG No.: WIL-28

GC Column: STABILWAX ID: 0.53 (mm) Init. Calib. Date(s): 11/13/12 11/13/12

Instrument ID: GC06

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION						
S1 : 2.64						
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #	
01	WG116361-BLANK	WG116361-1	11/13/12	1857	2.64	
02	WG116361-LCS	WG116361-2	11/13/12	1912	2.65	
03	WG116361-LCSD	WG116361-3	11/13/12	1926	2.64	
04	OC-SD-EDSD/SW7-XXX	WG116361-4	11/13/12	1955	2.65	
05	OC-SD-EDSD/SW7-XXX	SF7934-1	11/13/12	2010	2.64	
06	ONTINUING CALIBRATI	WG116399-16	11/13/12	2024	2.65	
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
S1 = diethylformamide (+/- 0.20 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: RI Analytical - Wilmington
FO No:
Sample Date: 11/06/12
Received Date: 11/09/12
Extraction Date: 11/12/12
Analysis Date: 13-NOV-2012 20:10
Report Date: 11/20/2012
Matrix: SOIL
% Solids: 80.9

Lab ID: SF7934-1
Client ID: OC-SD-EDSD/SW7-XXX
SDG: WIL-28
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG116361
Units: mg/Kgdrywt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.23	1.0	0.20	0.23	0.15
	diethylformamide		84%				

Page 01 of 01 6FK1047.d

Katahdin Analytical Services

Data file : \\target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1047.d
 Lab Smp Id: SF7934-1 Client Smp ID: OC-SD-EDSD/SW7-XXX
 Inj Date : 13-NOV-2012 20:10
 Operator : JLP Inst ID: gc06.i
 Smp Info : SF7934-1
 Misc Info : WG116361,WG116399-11
 Comment :
 Method : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\dmfA11A.m
 Meth Date : 16-Nov-2012 12:01 wstone Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of MEOH (L)
Ws	0.00109	Weight of Sample (Kg)
M	19.053	% Moisture
Cpnd Variable		Local Compound Variable

Compounds					CONCENTRATIONS		REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (mg/L)	FINAL (mg/Kgdrywt)	
\$ 2 diethylformamide	2.640	2.640	0.000	4576	0.42300	19.2 (M)	M4

QC Flag Legend

M - Compound response manually integrated.

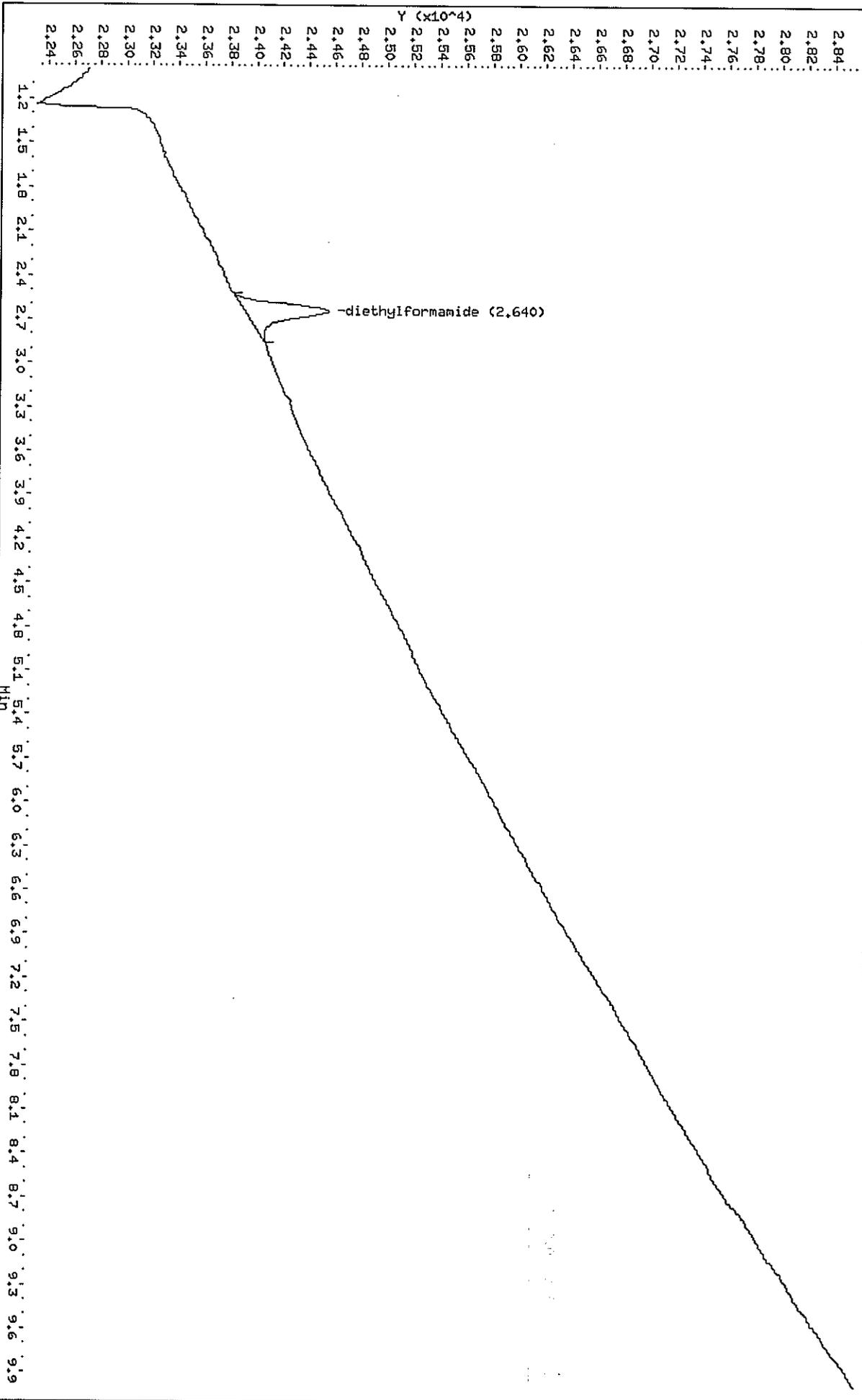
JLP
11/9/12

Data File: \\target_server\GG\chem\gc006,1\GC06FK13R1,1\6FK1047.d
Date: 13-NOV-2012 20:10
Client ID: QC-SD-EDSD/SW7-KXX
Sample Info: SF7934-1

Column phase: Stabilwax

Instrument: gc06.i
Operator: JLP
Column diameter: 0.53

\\target_server\GG\chem\gc006,1\GC06FK13R1,1\6FK1047,1\6FK1047.RAW



KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Olin Corporation
Project: RI Analytical - Wilmington
PO No:
Sample Date: 11/06/12
Received Date: 11/09/12
Extraction Date: 11/12/12
Analysis Date: 13-NOV-2012 19:55
Report Date: 11/20/2012
Matrix: SOIL
% Solids: 80.9

Lab ID: WG116361-4
Client ID: OC-SD-EDSD/SW7-XXX
SDG: WIL-28
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG116361
Units: mg/Kgdrywt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.20	1.0	0.20	0.20	0.13
	diethylformamide		80%				

Page 01 of 01 6FK1046.d

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1046.d
 Lab Smp Id: WG116361-4 Client Smp ID: OC-SD-EDSD/SW7-XXX
 Inj Date : 13-NOV-2012 19:55
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116361-4
 Misc Info : SW846 8033M
 Comment :
 Method : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\dmfA11A.m
 Meth Date : 20-Nov-2012 07:45 wstone Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of DI Water (L)
Ws	0.00125	Weight of Sample (Kg)
M	19.053	% Moisture
Cpnd Variable		Local Compound Variable

Compounds					CONCENTRATIONS		REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (mg/L)	FINAL (mg/Kgdrywt)	
\$ 2 diethylformamide	2.653	2.640	0.013	4316	0.40111	15.8(M)	M4

QC Flag Legend

M - Compound response manually integrated.

JLP
11/20/12

Data File: \\Target_server\05\chem\gc06.i\GC06FK13A1.b\6FK1046.d

Date: 13-NOV-2012 19:55

Client ID: QC-SD-EDSD/SW7-XXX

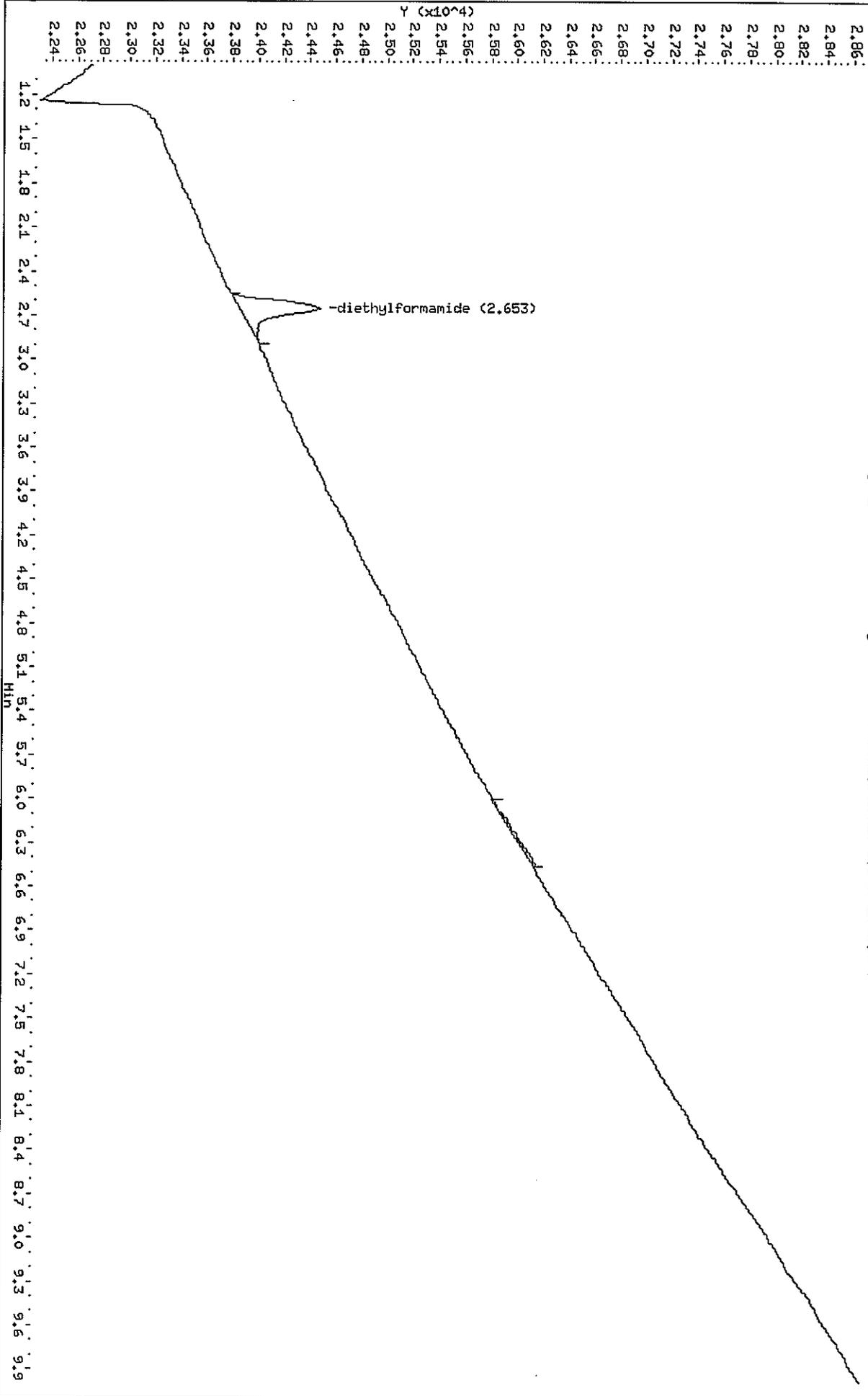
Sample Info: MG116361-4

Instrument: gc06.i

Column phase: Stabilwax

Operator: JLP
Column diameter: 0.53

\\Target_server\05\chem\gc06.i\GC06FK13A1.b\6FK1046.d\6FK1046.RAW



Report of Analytical Results

Client: Olin Corporation
 Lab ID: SF7935-1
 Client ID: OC-GW-404S-XXX
 Project: RI Analytical - Wilmington
 SDG: WIL-28
 Lab File ID: 6FK1022.D

Sample Date: 06-NOV-12
 Received Date: 09-NOV-12
 Extract Date: 13-NOV-12
 Extracted By: JLP
 Extraction Method: SW846 8033M
 Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
 Analyst: JLP
 Analysis Method: SW846 8033M
 Matrix: AQ
 % Solids: NA
 Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		94.4	%				

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1022.d
 Lab Smp Id: SF7935-1 Client Smp ID: OC-GW-404S-XXX
 Inj Date : 13-NOV-2012 14:06
 Operator : JLP Inst ID: gc06.i
 Smp Info : SF7935-1
 Misc Info : WG116399,WG116399-11,
 Comment :
 Method : \\TARGET_SERVER\GG\chem\gc06.i\GC06FK13A1.B\DMFA11A.m
 Meth Date : 16-Nov-2012 10:45 jprescott Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds					CONCENTRATIONS		REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (mg/L)	FINAL (mg/L)	
\$ 2 diethylformamide	2.666	2.640	0.026	5165	0.47258	0.472 (M)	M4

QC Flag Legend

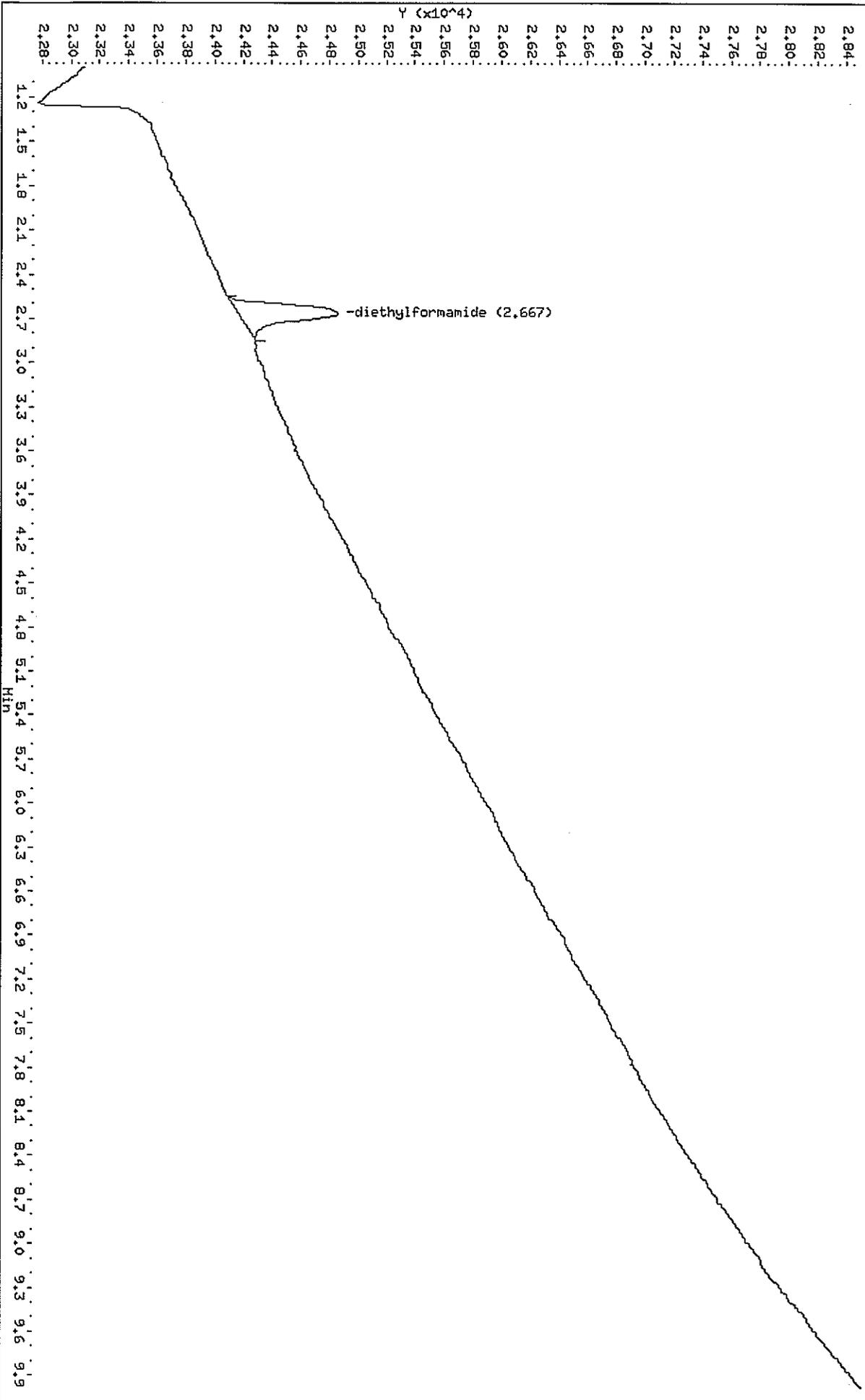
M - Compound response manually integrated.

JLP
11/9/12

Data File: \\Target_server\GG\chem\gc006.i\GC06FK13R1.b\6FK1022.d
Date: 13-NOV-2012 14:06
Client ID: GC-GM-404S-XXX
Sample Info: SF7935-1
Purge Volume: 0.0
Column phases: Stabilwax

Instrument: gc006.i
Operator: JLP
Column diameter: 0.53

\\Target_server\GG\chem\gc006.i\GC06FK13R1.b\6FK1022.d\6FK1022.RAW



Report of Analytical Results

Client:
Lab ID: WG116399-4
Client ID: Sample Duplicate
Project:
SDG: WIL-28
Lab File ID: 6FK1021.D

Sample Date:
Received Date:
Extract Date: 13-NOV-12
Extracted By: JLP
Extraction Method: SW846 8033M
Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
Analyst: JLP
Analysis Method: SW846 8033M
Matrix: AQ
% Solids: NA
Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		110.	%				

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1021.d
 Lab Smp Id: WG116399-4 Client Smp ID: OC-GW-404S-XXX
 Inj Date : 13-NOV-2012 13:51
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116399-4,WIL-28
 Misc Info : WG116399,WG116399-12,SF7935-1
 Comment :
 Method : \\TARGET_SERVER\GG\chem\gc06.i\GC06FK13A1.B\DMFA11A.m
 Meth Date : 20-Nov-2012 07:45 wstone Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS						REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (mg/L)	FINAL (mg/L)	
\$ 2 diethylformamide	2.653	2.640	0.013	6094	0.55078	0.551	

Data File: \\Target_server\GG\chem\g006.i\GC06FK13R1.b\6FK1021.d

Date: 13-NOV-2012 13:51

Client ID: OC-GH-404S-KXX

Sample Info: MCL16399-4.MIL-28

Purge Volume: 0.0

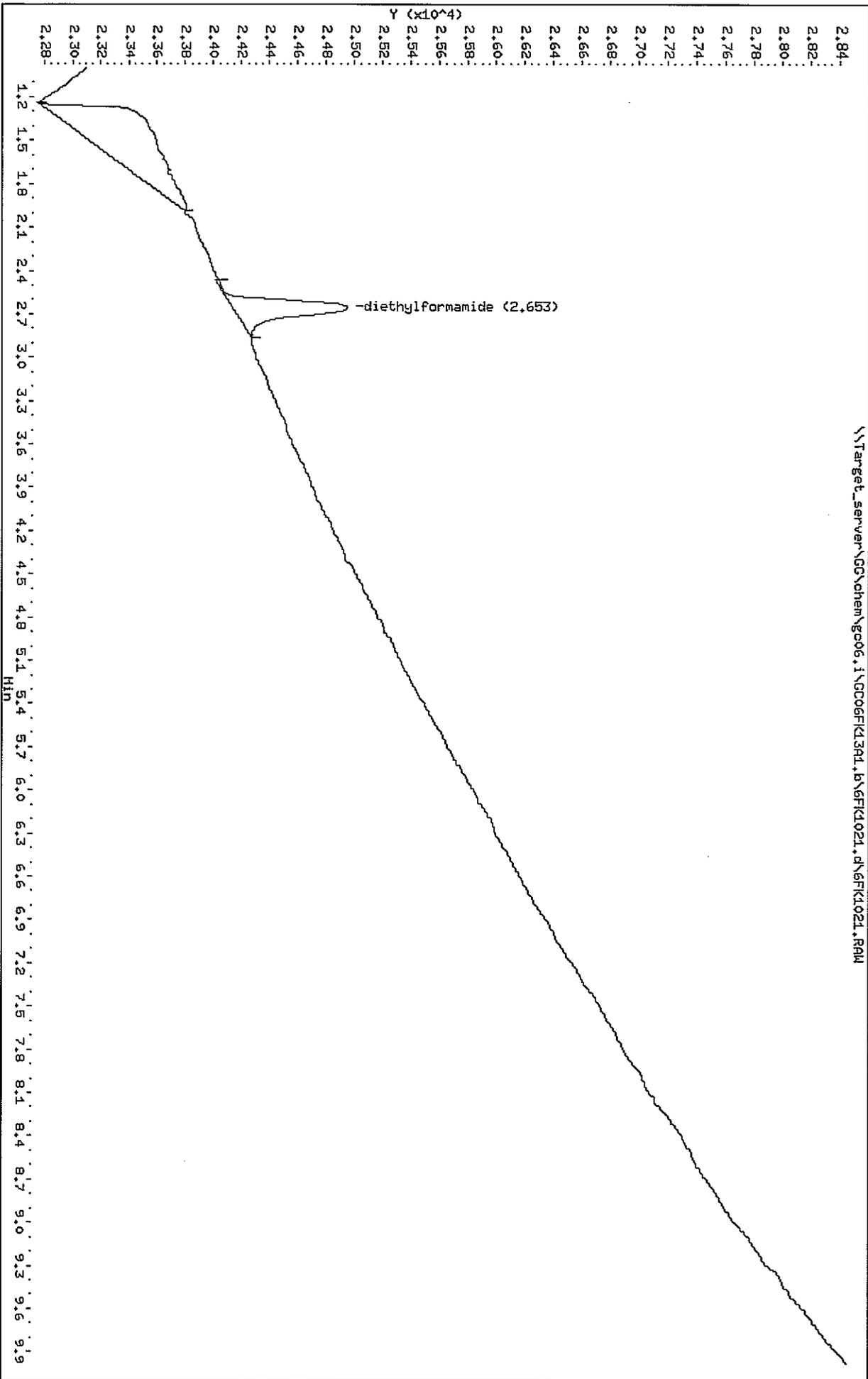
Column phase: Stabilwax

Instrument: g006.i

Operator: JLP

Column diameter: 0.53

\\Target_server\GG\chem\g006.i\GC06FK13R1.b\6FK1021.d\6FK1021.RAW



Report of Analytical Results

Client: Olin Corporation
 Lab ID: SF7935-2
 Client ID: OC-GW-404M-XXX
 Project: RI Analytical - Wilmington
 SDG: WIL-28
 Lab File ID: 6FK1023.D

Sample Date: 06-NOV-12
 Received Date: 09-NOV-12
 Extract Date: 13-NOV-12
 Extracted By: JLP
 Extraction Method: SW846 8033M
 Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
 Analyst: JLP
 Analysis Method: SW846 8033M
 Matrix: AQ
 % Solids: NA
 Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		93.8	%				

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1023.d
 Lab Smp Id: SF7935-2 Client Smp ID: OC-GW-404M-XXX
 Inj Date : 13-NOV-2012 14:20
 Operator : JLP Inst ID: gc06.i
 Smp Info : SF7935-2
 Misc Info : WG116399,WG116399-11,
 Comment :
 Method : \\TARGET_SERVER\GG\chem\gc06.i\GC06FK13A1.B\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS					ON-COLUMN (mg/L)	FINAL (mg/L)	REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE				
\$ 2 diethylformamide	2.653	2.640	0.013	5123	0.46904	0.469 (M)	M4	

QC Flag Legend

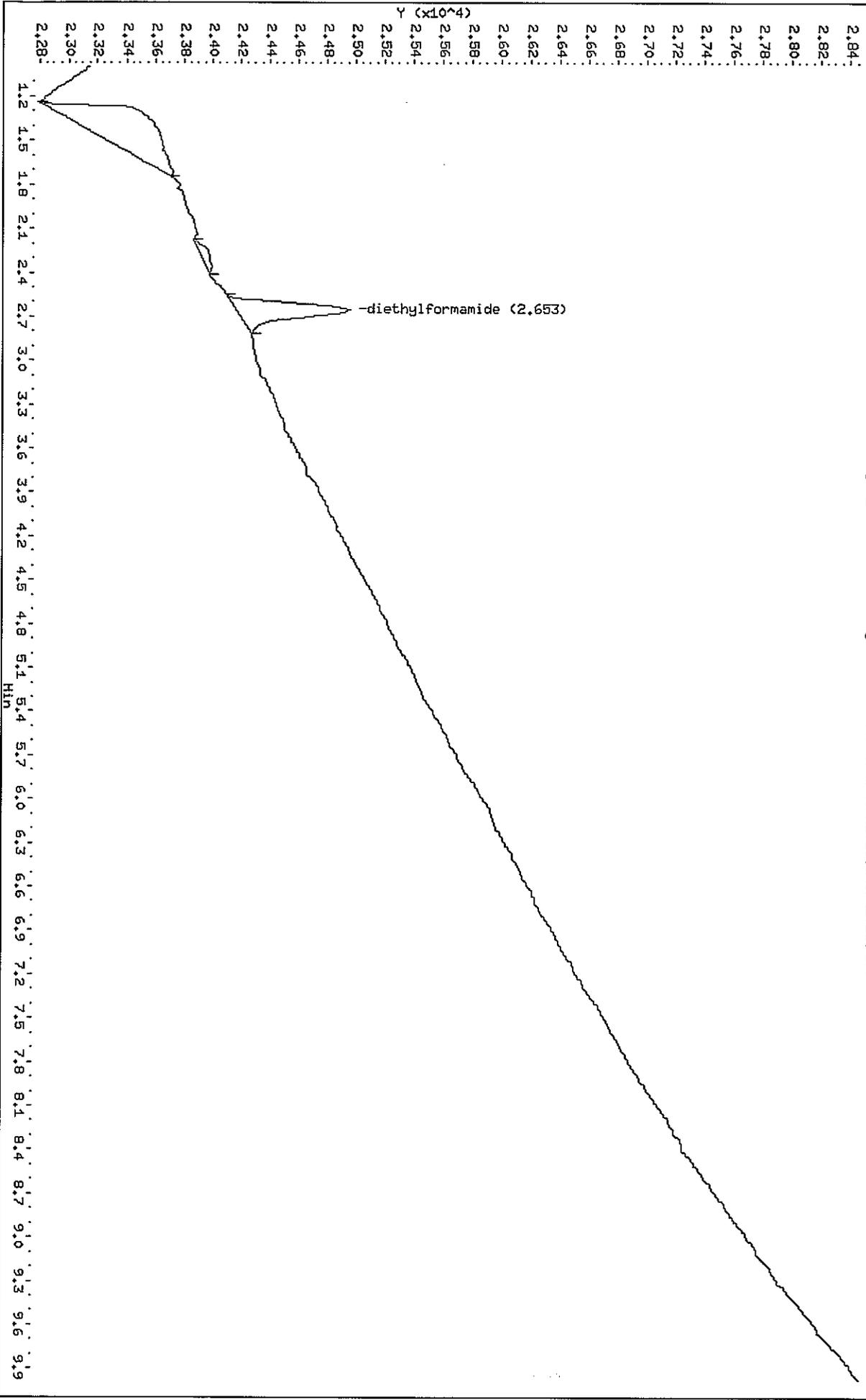
M - Compound response manually integrated.

JLP
11/19/12

Data File: \\Target_server\GG\chem\gc06.i\GC06FL13A1.b\6FL1023.d
Date: 13-NOV-2012 14:20
Client ID: OC-GM-404H-XXX
Sample Info: SF7935-2
Purge Volume: 0.0
Column phase: Seabiltwax

Instrument: gc06.i
Operator: JLP
Column diameter: 0.53

\\Target_server\GG\chem\gc06.i\GC06FL13A1.b\6FL1023.d\6FL1023.RAW



Report of Analytical Results

Client: Olin Corporation
Lab ID: SF7935-3
Client ID: OC-GW-400BR-XXX
Project: RI Analytical - Wilmington
SDG: WIL-28
Lab File ID: 6FK1024.D

Sample Date: 07-NOV-12
Received Date: 09-NOV-12
Extract Date: 13-NOV-12
Extracted By: JLP
Extraction Method: SW846 8033M
Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
Analyst: JLP
Analysis Method: SW846 8033M
Matrix: AQ
% Solids: NA
Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		100.	%				

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1024.d
 Lab Smp Id: SF7935-3 Client Smp ID: OC-GW-400BR-XXX
 Inj Date : 13-NOV-2012 14:35
 Operator : JLP Inst ID: gc06.i
 Smp Info : SF7935-3
 Misc Info : WG116399,WG116399-11
 Comment :
 Method : \\TARGET_SERVER\GG\chem\gc06.i\GC06FK13A1.B\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds					CONCENTRATIONS		REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (mg/L)	FINAL (mg/L)	
\$ 2 diethylformamide	2.666	2.640	0.026	5512	0.50179	0.502 (M)	M4

QC Flag Legend

M - Compound response manually integrated.

JLP
11/19/12

Data File: \\Target_server\GG\chem\g006.i\GC06FL13A1.b\6FL1024.d

Date: 13-NOV-2012 14:35

Client ID: GC-GM-400BR-XXX

Sample Infol: SF7935-3

Purge Volume: 0.0

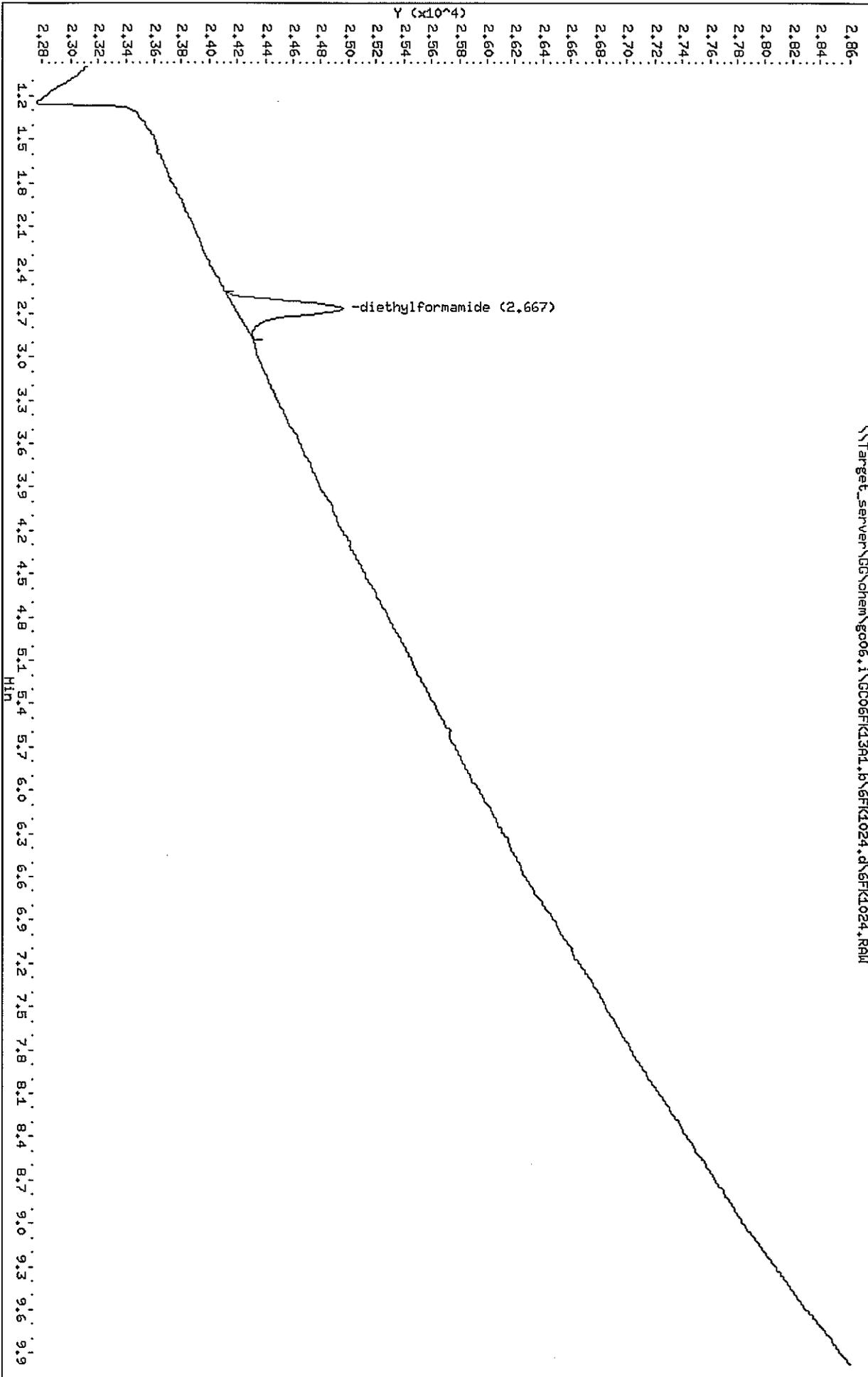
Column phase: Stabilwax

Instrument: g006.i

Operator: JLP

Column diameter: 0.53

\\Target_server\GG\chem\g006.i\GC06FL13A1.b\6FL1024.d\6FL1024.RAW



Report of Analytical Results

Client: Olin Corporation
Lab ID: SF7935-4
Client ID: OC-GW-400D-XXX
Project: RI Analytical - Wilmington
SDG: WIL-28
Lab File ID: 6FK1025.D

Sample Date: 07-NOV-12
Received Date: 09-NOV-12
Extract Date: 13-NOV-12
Extracted By: JLP
Extraction Method: SW846 8033M
Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
Analyst: JLP
Analysis Method: SW846 8033M
Matrix: AQ
% Solids: NA
Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		99.2	%				

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1025.d
 Lab Smp Id: SF7935-4 Client Smp ID: OC-GW-400D-XXX
 Inj Date : 13-NOV-2012 14:50
 Operator : JLP Inst ID: gc06.i
 Smp Info : SF7935-4
 Misc Info : WG116399,WG116399-11
 Comment :
 Method : \\TARGET_SERVER\GG\chem\gc06.i\GC06FK13A1.B\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

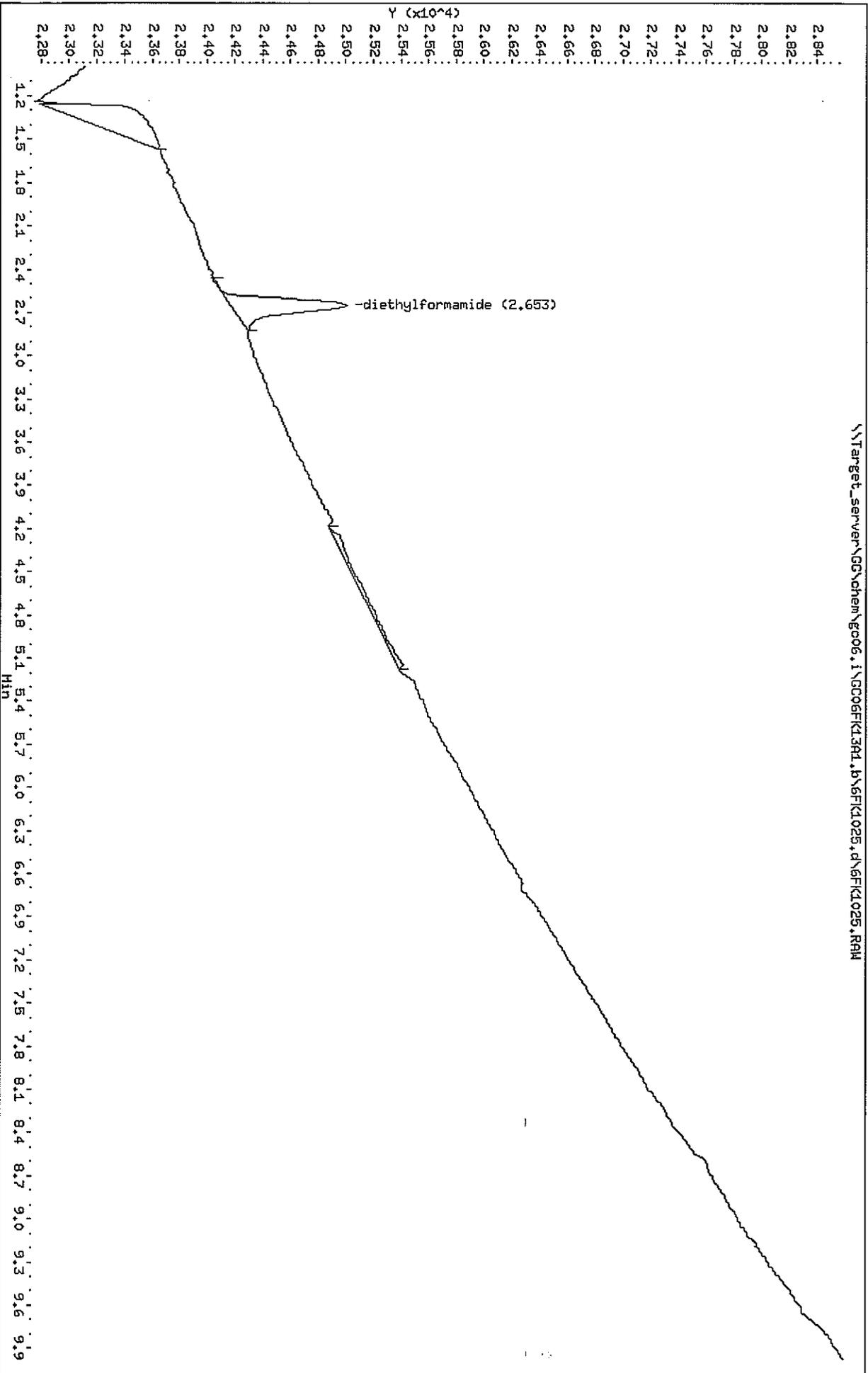
Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds					CONCENTRATIONS		REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (mg/L)	FINAL (mg/L)	
\$ 2 diethylformamide	2.653	2.640	0.013	5438	0.49556	0.496	*****

Data File: \\Target_server\GG\chem\g006.1\GC06FK13H1.b\6FK1025.d
Date: 13-NOV-2012 14:50
Client ID: GC-GM-400D-KXX
Sample Info: SF7935-4
Purge Volume: 0.0
Column phase: Stabilwax

Instrument: g006.i
Operator: JLP
Column diameter: 0.53



Report of Analytical Results

Client: Olin Corporation
 Lab ID: SF7935-5
 Client ID: OC-GW-404BR-XXX
 Project: RI Analytical - Wilmington
 SDG: WIL-28
 Lab File ID: 6FK1026.D

Sample Date: 07-NOV-12
 Received Date: 09-NOV-12
 Extract Date: 13-NOV-12
 Extracted By: JLP
 Extraction Method: SW846 8033M
 Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
 Analyst: JLP
 Analysis Method: SW846 8033M
 Matrix: AQ
 % Solids: NA
 Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		100.	%				

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1026.d
 Lab Smp Id: SF7935-5 Client Smp ID: OC-GW-404BR-XXX
 Inj Date : 13-NOV-2012 15:04
 Operator : JLP Inst ID: gc06.i
 Smp Info : SF7935-5
 Misc Info : WG116399,WG116399-11
 Comment :
 Method : \\TARGET_SERVER\GG\chem\gc06.i\GC06FK13A1.B\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

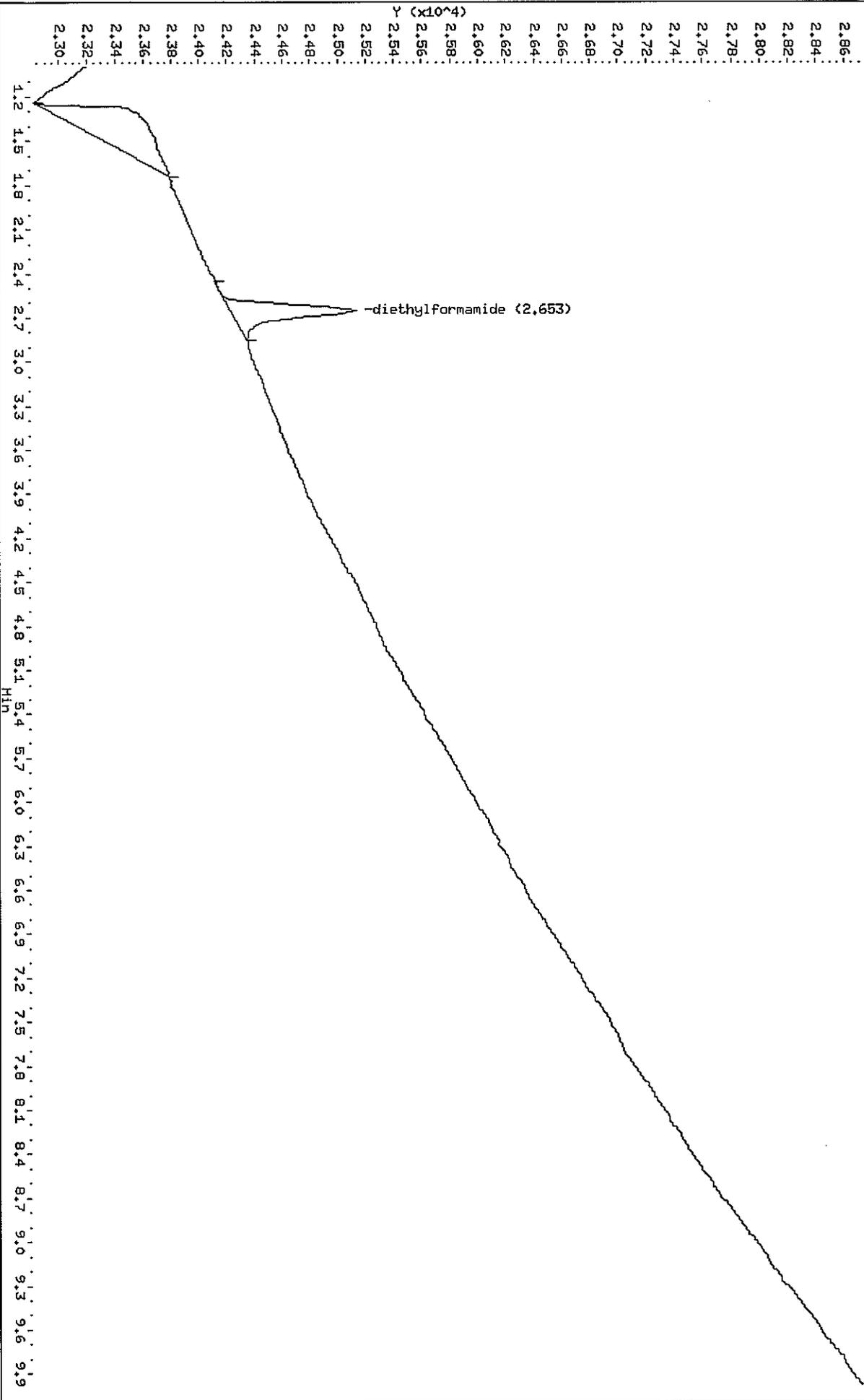
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS						REVIEW CODE
	RT	EXP RT	DLP RT	RESPONSE	ON-COLUMN (mg/L)	FINAL (mg/L)	
\$ 2 diethylformamide	2.653	2.640	0.013	5519	0.50237	0.502	=====

Data File: \\Target_server\GG\chem\g006,1\GC06FK13A1.b\6FK1026.d
Date: 13-NOV-2012 15:04
Client ID: OC-GM-404BR-KXX
Sample Info: SF7935-5
Purge Volume: 0.0
Column phase: Stabilwax

Instrument: g006.i
Operator: JLP
Column diameter: 0.53

\\Target_server\GG\chem\g006,1\GC06FK13A1.b\6FK1026.d\6FK1026.RAW



Report of Analytical Results

Client: Olin Corporation
Lab ID: SF7935-6
Client ID: OC-GW-404D-XXX
Project: RI Analytical - Wilmington
SDG: WIL-28
Lab File ID: 6FK1027.D

Sample Date: 07-NOV-12
Received Date: 09-NOV-12
Extract Date: 13-NOV-12
Extracted By: JLP
Extraction Method: SW846 8033M
Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
Analyst: JLP
Analysis Method: SW846 8033M
Matrix: AQ
% Solids: NA
Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		101.	%				

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1027.d
 Lab Smp Id: SF7935-6 Client Smp ID: OC-GW-404D-XXX
 Inj Date : 13-NOV-2012 15:19
 Operator : JLP Inst ID: gc06.i
 Smp Info : SF7935-6
 Misc Info : WG116399,WG116399-11
 Comment :
 Method : \\TARGET_SERVER\GG\chem\gc06.i\GC06FK13A1.B\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

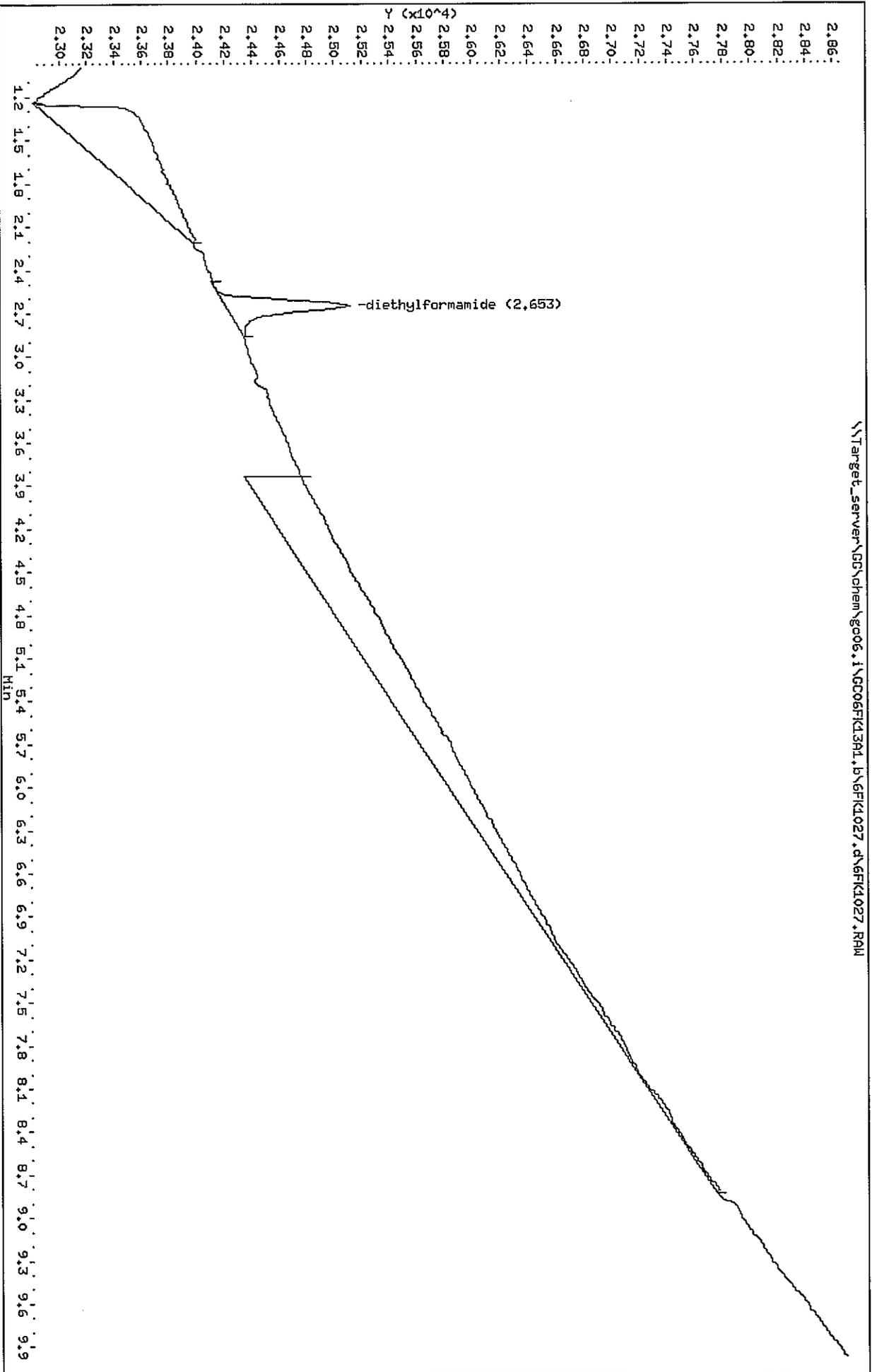
Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS						REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (mg/L)	FINAL (mg/L)	
\$ 2 diethylformamide	2.653	2.640	0.013	5533	0.50355	0.504	

Data File: \\Target_server\GG\chem\g006.i\GC06FK13A1.b\6FK1027.d
Date: 13-NOV-2012 15:19
Client ID: GC-GM-404D-XXX
Sample Info: SF7935-6
Purge Volume: 0.0
Column phase: Stabilwax

Instrument: g006.i
Operator: JLP
Column diameter: 0.53



Report of Analytical Results

Client: Olin Corporation
Lab ID: SF7935-7
Client ID: OC-GW-400S-XXX
Project: RI Analytical - Wilmington
SDG: WIL-28
Lab File ID: 6FK1030.D

Sample Date: 08-NOV-12
Received Date: 09-NOV-12
Extract Date: 13-NOV-12
Extracted By: JLP
Extraction Method: SW846 8033M
Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
Analyst: JLP
Analysis Method: SW846 8033M
Matrix: AQ
% Solids: NA
Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		104.	%				

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1030.d
 Lab Smp Id: SF7935-7 Client Smp ID: OC-GW-400S-XXX
 Inj Date : 13-NOV-2012 16:03
 Operator : JLP Inst ID: gc06.i
 Smp Info : SF7935-7
 Misc Info : WG116399,WG116399-11
 Comment :
 Method : \\TARGET_SERVER\GG\chem\gc06.i\GC06FK13A1.B\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds					CONCENTRATIONS		REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (mg/L)	FINAL (mg/L)	
\$ 2 diethylformamide	2.653	2.640	0.013	5724	0.51963	0.520 (M)	M4

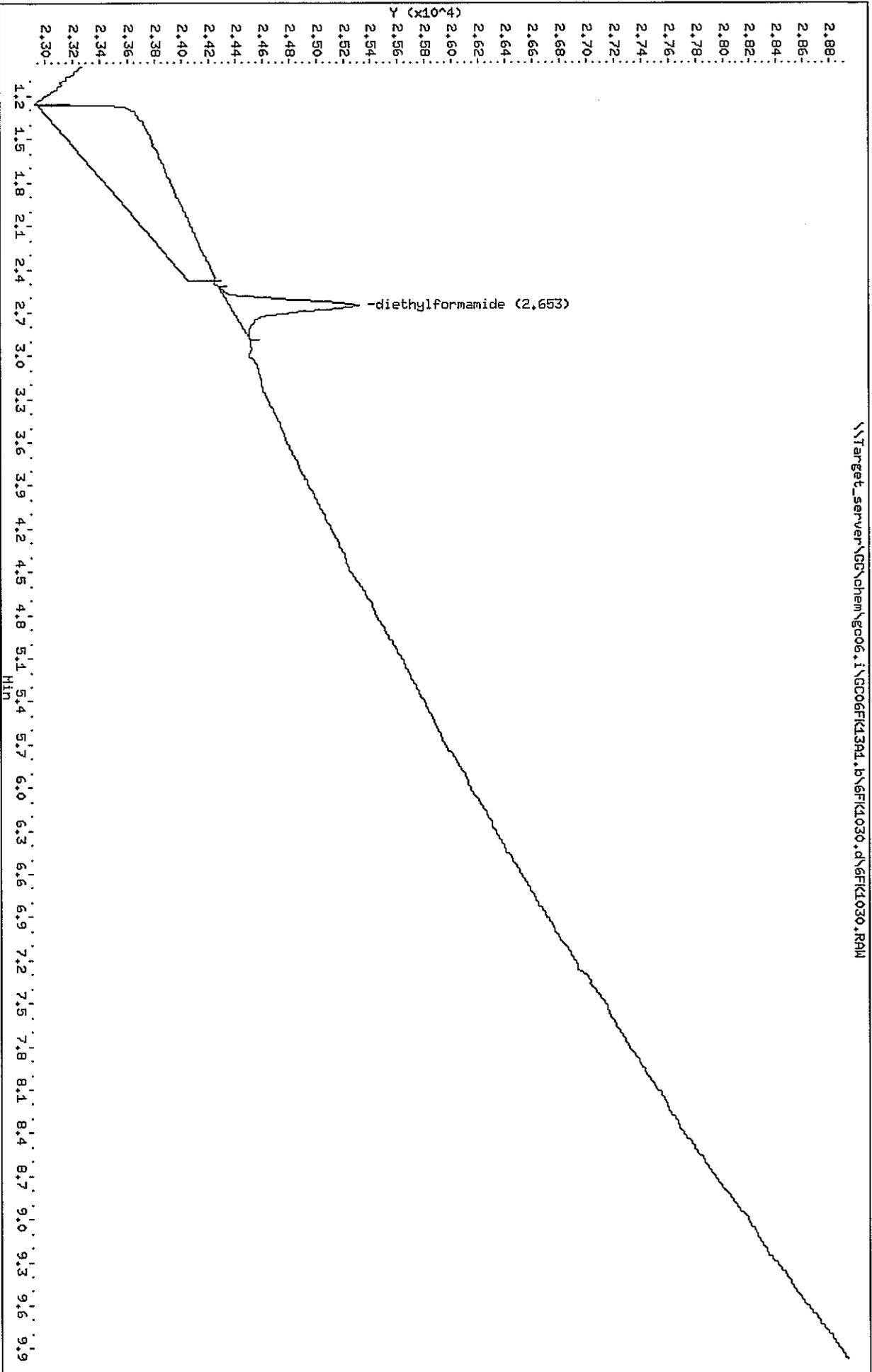
JLP
11/19/12

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc006.i\GC06FK13A1.b\6FK1030.d
Date: 13-NOV-2012 16:03
Client ID: GC-GM-4005-KXX
Sample Info: SF7935-7
Purge Volume: 0.0
Column phase: Stabilwax

Instrument: gc006.i
Operator: JLP
Column diameter: 0.53



Report of Analytical Results

Client: Olin Corporation
 Lab ID: SF7935-8
 Client ID: OC-GW-400M-XXX
 Project: RI Analytical - Wilmington
 SDG: WIL-28
 Lab File ID: 6FK1031.D

Sample Date: 08-NOV-12
 Received Date: 09-NOV-12
 Extract Date: 13-NOV-12
 Extracted By: JLP
 Extraction Method: SW846 8033M
 Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
 Analyst: JLP
 Analysis Method: SW846 8033M
 Matrix: AQ
 % Solids: NA
 Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		97.6	%				

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1031.d
 Lab Smp Id: SF7935-8 Client Smp ID: OC-GW-400M-XXX
 Inj Date : 13-NOV-2012 16:17
 Operator : JLP Inst ID: gc06.i
 Smp Info : SF7935-8
 Misc Info : WG116399,WG116399-11
 Comment :
 Method : \\TARGET_SERVER\GG\chem\gc06.i\GC06FK13A1.B\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds					CONCENTRATIONS		REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (mg/L)	FINAL (mg/L)	
\$ 2 diethylformamide	2.666	2.640	0.026	5345	0.48773	0.488(M)	M4

QC Flag Legend

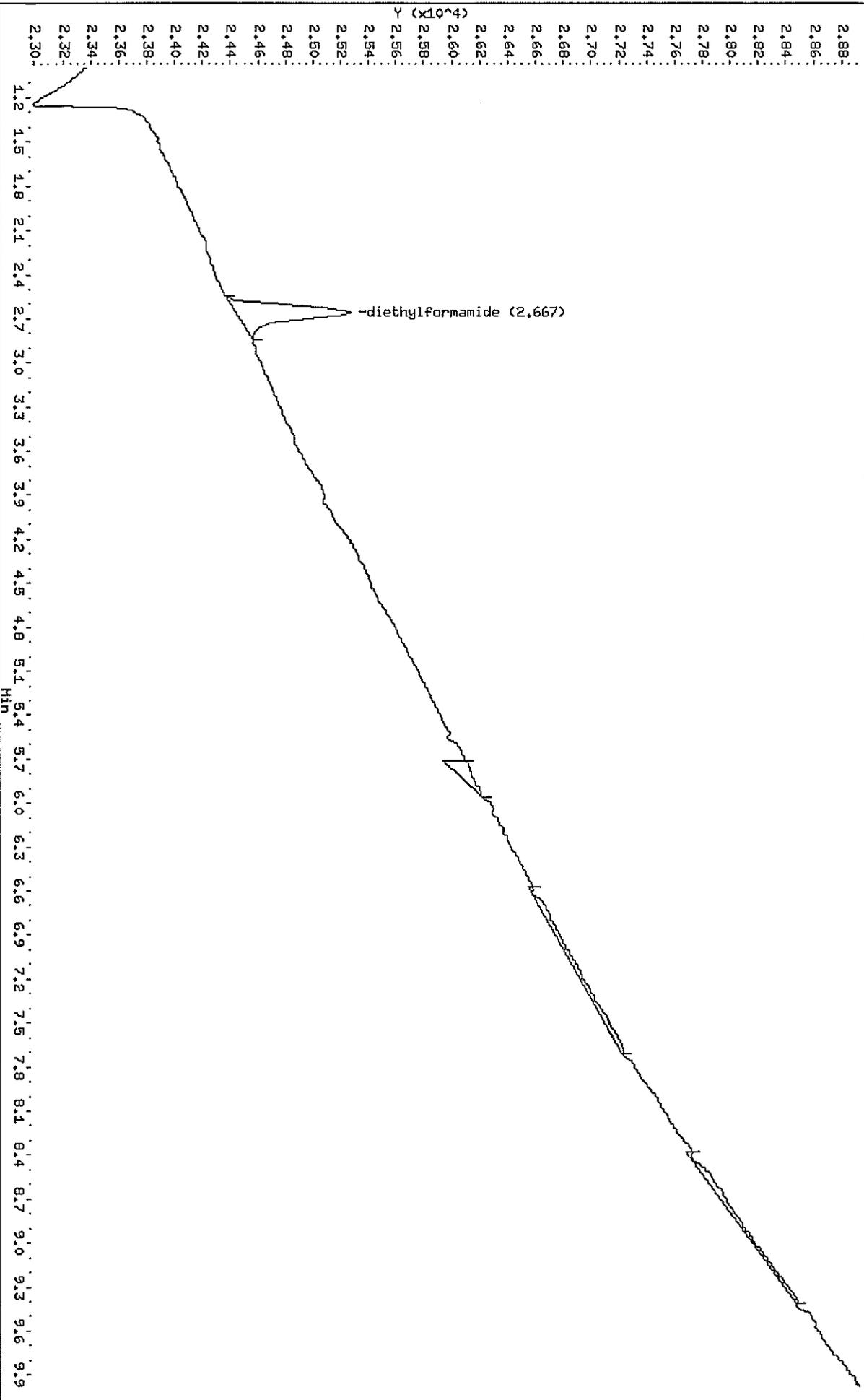
M - Compound response manually integrated.

JLP
11/19/12

Data File: \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\GFK1031.d
Date: 13-NOV-2012 16:17
Client ID: GC-GM-400H-XXX
Sample Info: SF7935-8
Purge Volume: 0.0
Column phase: Stabilwax

Instrument: gc06.i
Operator: JLP
Column diameter: 0.53

\\Target_server\GG\chem\gc06.i\GC06FK13A1.b\GFK1031.d\GFK1031.RAW



Report of Analytical Results

Client: Olin Corporation
Lab ID: SF7935-9
Client ID: OC-GW-400M-DUP
Project: RI Analytical - Wilmington
SDG: WIL-28
Lab File ID: 6FK1032.D

Sample Date: 08-NOV-12
Received Date: 09-NOV-12
Extract Date: 13-NOV-12
Extracted By: JLP
Extraction Method: SW846 8033M
Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
Analyst: JLP
Analysis Method: SW846 8033M
Matrix: AQ
% Solids: NA
Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		107.	%				

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1032.d
 Lab Smp Id: SF7935-9 Client Smp ID: OC-GW-400M-DUP
 Inj Date : 13-NOV-2012 16:32
 Operator : JLP Inst ID: gc06.i
 Smp Info : SF7935-9
 Misc Info : WG116399,WG116399-11
 Comment :
 Method : \\TARGET_SERVER\GG\chem\gc06.i\GC06FK13A1.B\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds					CONCENTRATIONS		REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (mg/L)	FINAL (mg/L)	
\$ 2 diethylformamide	2.666	2.640	0.026	5907	0.53504	0.535 (M)	M4

QC Flag Legend

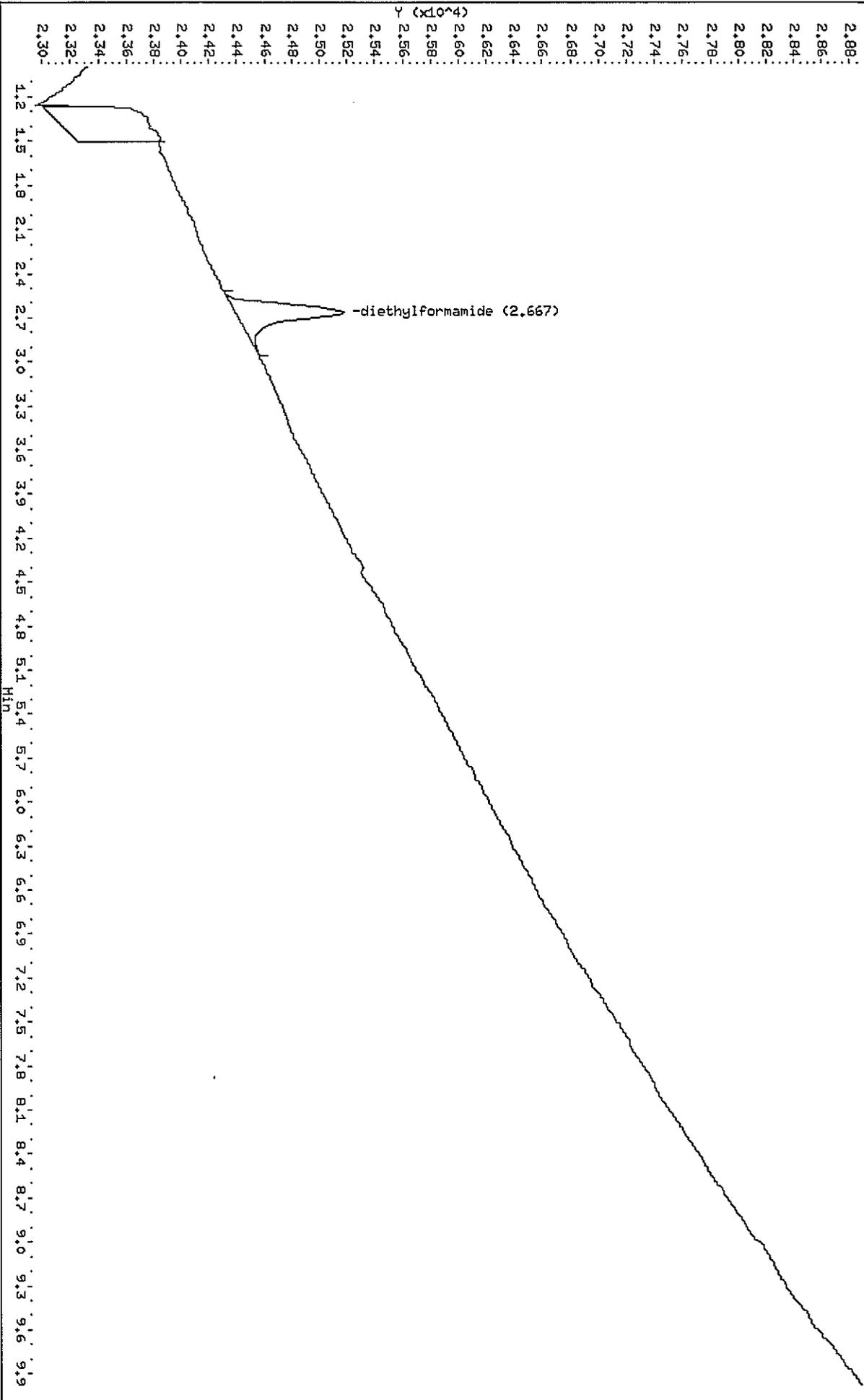
M - Compound response manually integrated.

JW
11/19/12

Data File: \\Target_server\GG\chem\g006.i\GC06FL13A1.b\6FL1032.d
Date: 13-NOV-2012 16:32
Client ID: OC-GM-400H-DUP
Sample Info: SF7935-9
Purge Volume: 0.0
Column phase: Stabilwax

Instrument: g006.i
Operator: JLP
Column diameter: 0.53

\\Target_server\GG\chem\g006.i\GC06FL13A1.b\6FL1032.d\6FL1032.RAW



Standards Data Section

FORM 6
DMF INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project RI ANALYTICAL - WILMINGTON SDG No.: WIL-28

Instrument ID: GC06 Calibration Date(s): 11/13/12 11/13/12

Column: STABILWAX ID: 0.53 (mm) Calibration Time(s): 1017 1204

LAB FILE ID: RFO.02: 6FK1008 RFO.05: 6FK1009 RFO.1: 6FK1010
RFO.25: 6FK1011 RFO.5: 6FK1012 RFI: 6FK1014

COMPOUND								COEFFICIENTS		%RSD	MAX %RSD
	RFO.02	RFO.05	RFO.1	RFO.25	RFO.5	RF1	CURVE	A0	A1	OR R^2	OR R^2
dimethylformamide	256		950	3330	6910	14839	LINR	1.477e-002	6.728e-005	0.99793	0.99000
diethylformamide	2398	5720	10873	28690	47512		LINR	3.78e-002	8.418e-005	0.99942	0.99000

FORM VI DMF

FORM VI
DMF INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project RI ANALYTICAL - WILMINGTON SDG No.: WIL-28

Instrument ID: GC06 Calibration Date(s): 11/13/12 11/13/12

Column: STABILWAX ID: 0.53 (mm) Calibration Time(s): 1017 1204

RF0.005: 6FK1007

COMPOUND	RF0.005	CURVE	COEFFICIENTS		%RSD		MAX %RSD
			A0	A1	OR R^2	OR R^2	
dimethylformamide	48	LINR	1.477e-002	6.728e-005	0.99793	0.99000	
diethylformamide	859	LINR	3.78e-002	8.418e-005	0.99942	0.99000	

FORM VI DMF

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1007.d
 Lab Smp Id: WG116399-7 Client Smp ID: Initial Calibration
 Inj Date : 13-NOV-2012 10:17
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116399-7
 Misc Info : WG116399,WG116399-11,SF7935-8
 Comment :
 Method : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\dmfA11A.m
 Meth Date : 20-Nov-2012 11:45 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 10:17 Cal File: 6FK1007.RAW
 Als bottle: 1 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: mdl.sub
 Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	AMOUNTS				CAL-AMT (mg/L)	ON-COL (mg/L)	REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE			
1 dimethylformamide	2.080	2.013	0.067	48	0.00500	0.0180 (M)	M6
\$ 2 diethylformamide	2.666	2.640	0.026	859	0.10000	0.110 (M)	M4

QC Flag Legend

M - Compound response manually integrated.

JLP
11/20/12

Data File: \\Target_server\GC\chem\gc06.i\GC06FK13R1.b\6FK1007.d

Date: 13-NOV-2012 10:17

Client ID: Initial Calibration

Sample Info: MS16399-7

Purge Volume: 0.0

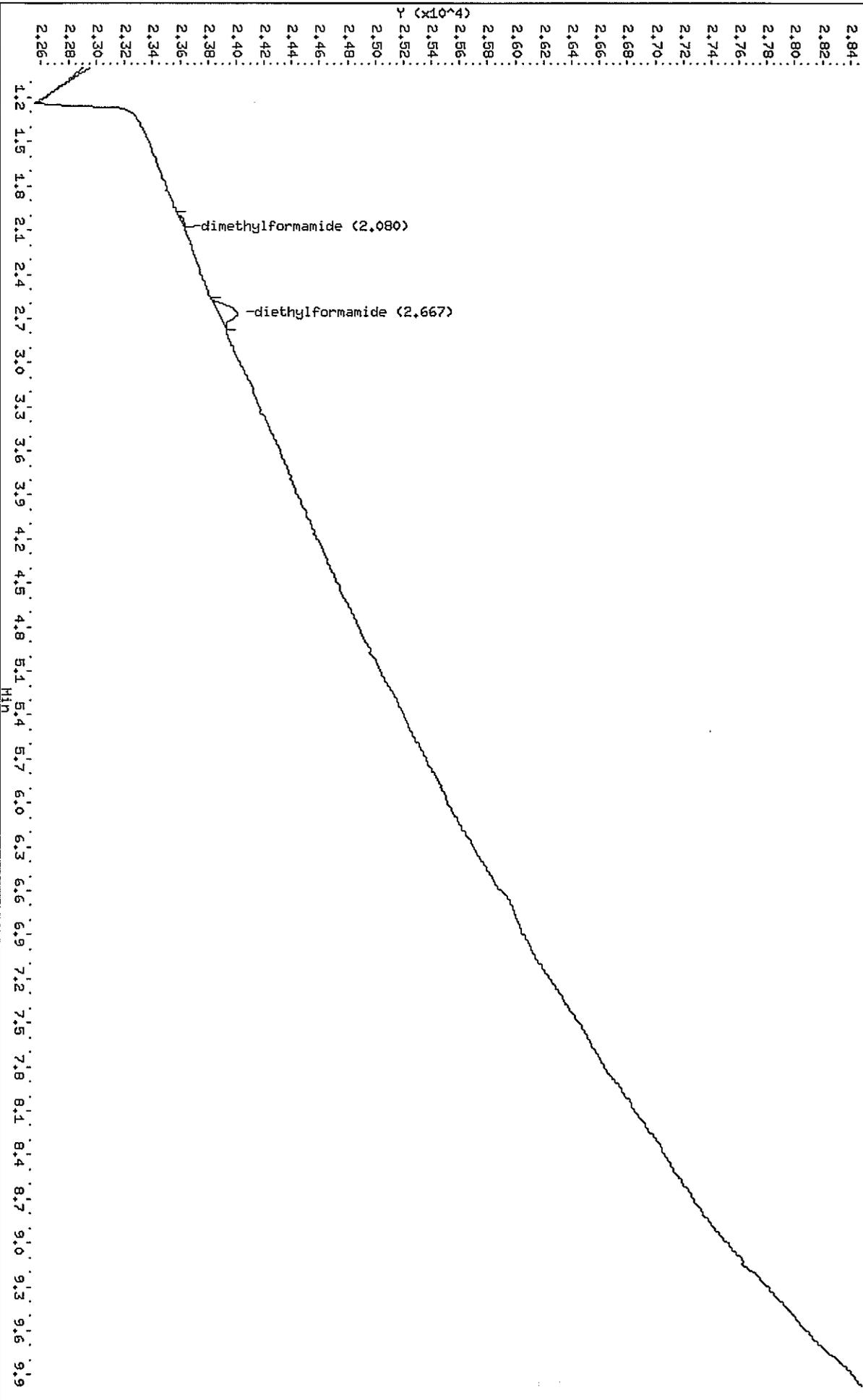
Column phase: Stabilwax

Instrument: gc06.i

Operator: JLP

Column diameter: 0.53

\\Target_server\GC\chem\gc06.i\GC06FK13R1.b\6FK1007.d\6FK1007.RAW



Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1008.d
 Lab Smp Id: WG116399-8 Client Smp ID: Initial Calibration
 Inj Date : 13-NOV-2012 10:37
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116399-8
 Misc Info :
 Comment :
 Method : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 10:37 Cal File: 6FK1008.RAW
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	AMOUNTS				CAL-AMT (mg/L)	ON-COL (mg/L)	REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE			
1 dimethylformamide	2.053	2.013	0.040	256	0.02000	0.0199 (aM)	M4
\$ 2 diethylformamide	2.640	2.640	0.000	2398	0.25000	0.229	

JLP
11/19/12

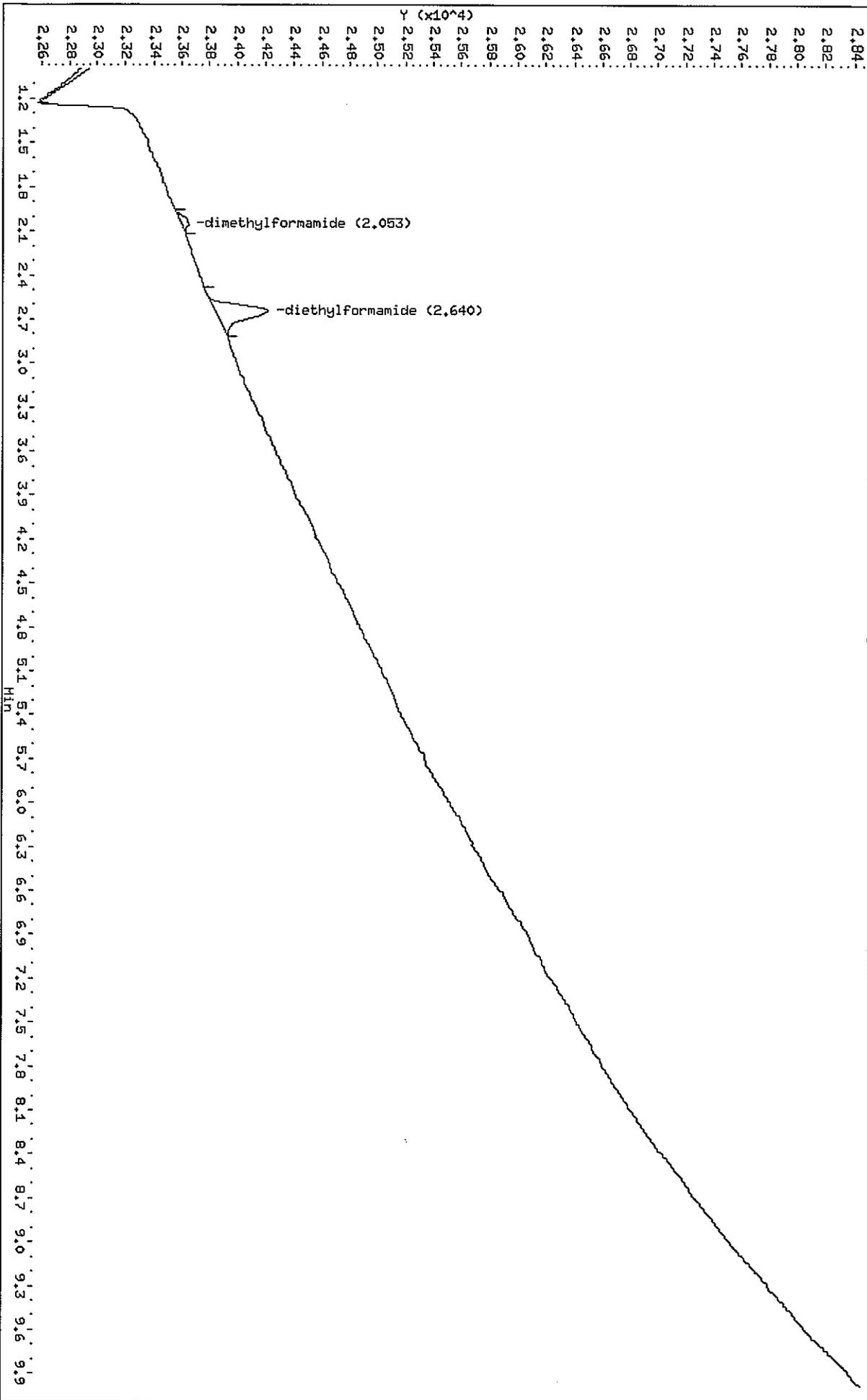
QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\g006.i\GC06FKI3A1.b\6FKI008.d
Date: 13-NOV-2012 10:37
Client ID: Initial Calibration
Sample Info: MG116399-8
Purge Volume: 0.0
Column phase: Stabilwax

Instrument: g006.i
Operator: JLP
Column diameter: 0.53

\\Target_server\GG\chem\g006.i\GC06FKI3A1.b\6FKI008.d\6FKI008.RAW



Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1009.d
 Lab Smp Id: WG116399-9 Client Smp ID: Initial Calibration
 Inj Date : 13-NOV-2012 10:52 Inst ID: gc06.i
 Operator : JLP
 Smp Info : WG116399-9
 Misc Info :
 Comment :
 Method : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 10:52 Cal File: 6FK1009.RAW
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000 Compound Sublist: SW8033M.sub
 Integrator: Falcon
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS		REVIEW CODE
					CAL-AMT (mg/L)	ON-COL (mg/L)	
1 dimethylformamide	2.053	2.013	0.040	2400	0.05000	0.135 (M)	M4
\$ 2 diethylformamide	2.640	2.640	0.000	5720	0.50000	0.513	

JLP
11/19/12

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GS\chem\gc06.i\GC06FK13R1.b\6FK1009.d

Date: 13-NOV-2012 10:52

Client ID: Initial Calibration

Sample Info: MCI16399-9

Purge Volume: 0.0

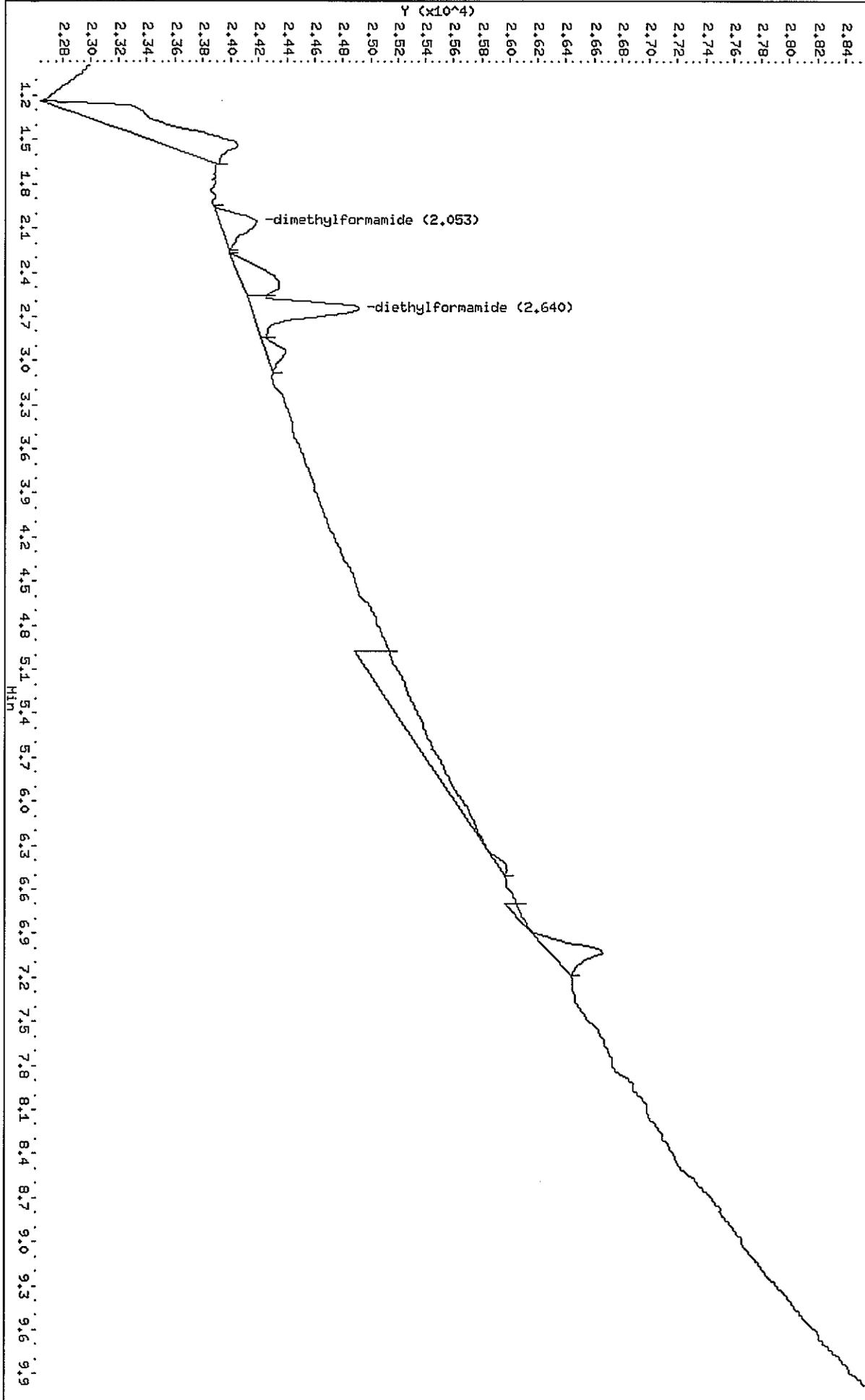
Column phase: Stabilwax

Instrument: gc06.i

Operator: JLP

Column diameter: 0.53

\\Target_server\GS\chem\gc06.i\GC06FK13R1.b\6FK1009.d\6FK1009.RAW



Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1010.d
 Lab Smp Id: WG116399-10 Client Smp ID: Initial Calibration
 Inj Date : 13-NOV-2012 11:06
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116399-10
 Misc Info :
 Comment :
 Method : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 11:06 Cal File: 6FK1010.RAW
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	AMOUNTS				CAL-AMT (mg/L)	ON-COL (mg/L)	REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE			
1 dimethylformamide	2.040	2.013	0.027	950	0.10000	0.0585 (M)	M4
\$ 2 diethylformamide	2.653	2.640	0.013	10873	1.00000	0.966	

JLP
11/19/12
1

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\g006.i\GC06FK13R1.b\GF1010.d

Date: 13-NOV-2012 11:06

Client ID: Initial Calibration

Sample Info: MGL16399-10

Purge Volume: 0.0

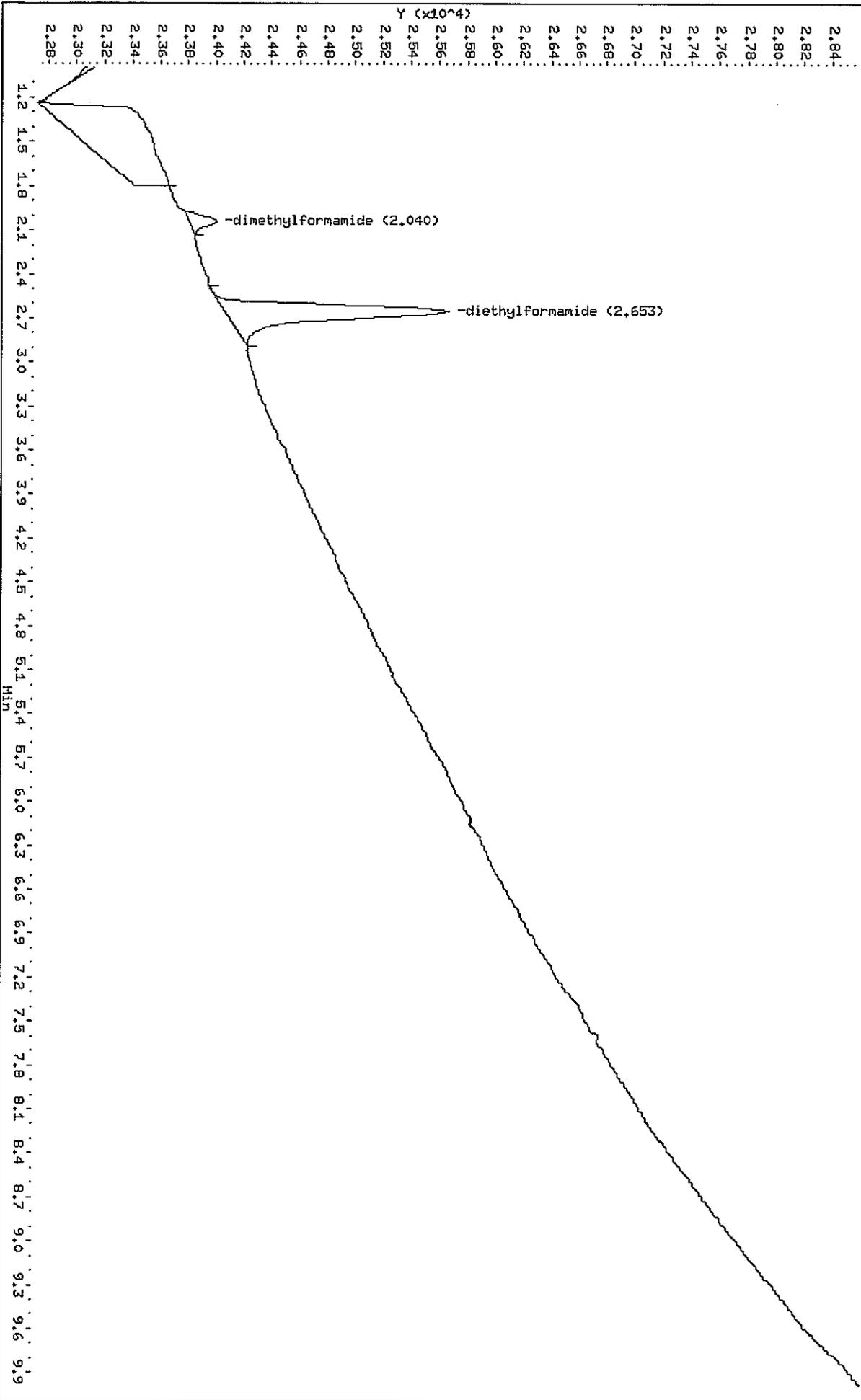
Column phase: Stabilwax

Instrument: g006.i

Operator: JLP

Column diameter: 0.53

\\Target_server\GG\chem\g006.i\GC06FK13R1.b\GF1010.d\GF1010.RAW



Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1011.d
 Lab Smp Id: WG116399-11 Client Smp ID: Initial Calibration
 Inj Date : 13-NOV-2012 11:21
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116399-11
 Misc Info :
 Comment :
 Method : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\dmfA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 11:21 Cal File: 6FK1011.RAW
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS		REVIEW CODE
					CAL-AMT (mg/L)	ON-COL (mg/L)	
1 dimethylformamide	2.013	2.013	0.000	3330	0.25000	0.239 (M)	M4
\$ 2 diethylformamide	2.640	2.640	0.000	28690	2.50000	2.45	

JLP
11/19/12

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc06.i\GC06FL13R1.D

Date: 13-NOV-2012 11:21

Client ID: Initial Calibration

Sample Info: MG116399-11

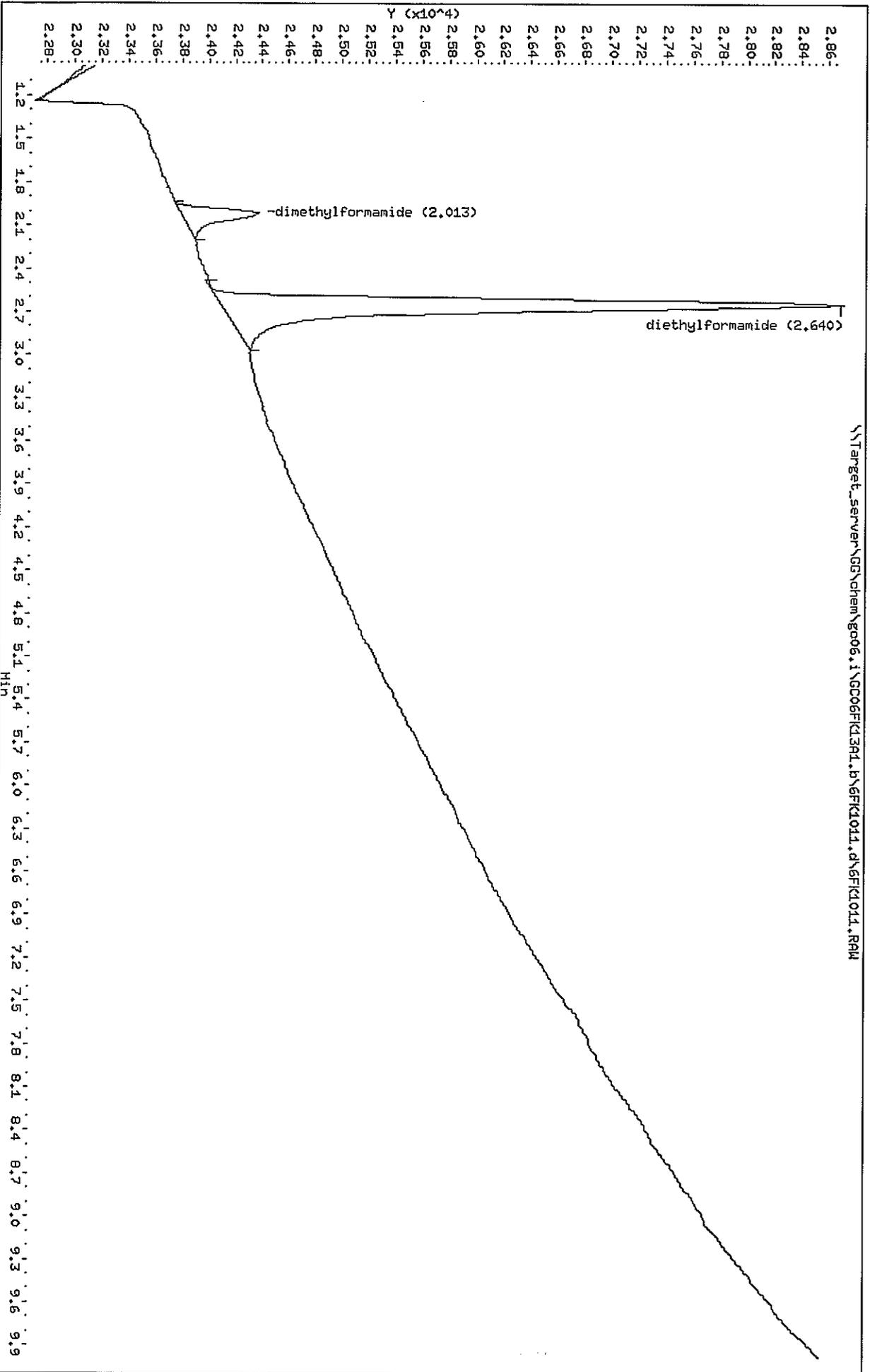
Purge Volume: 0.0

Column phase: Stablewax

Instrument: gc06.i

Operator: JLP

Column diameter: 0.53



Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1012.d
 Lab Smp Id: WG116399-12 Client Smp ID: Initial Calibration
 Inj Date : 13-NOV-2012 11:35
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116399-12
 Misc Info :
 Comment :
 Method : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 11:35 Cal File: 6FK1012.RAW
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	AMOUNTS					CAL-AMT (mg/L)	ON-COL (mg/L)	REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE				
1 dimethylformamide	2.066	2.013	0.053	6910	0.50000	0.478 (M)	M4	
\$ 2 diethylformamide	2.666	2.640	0.026	47512	4.00000	4.04 (AM)		

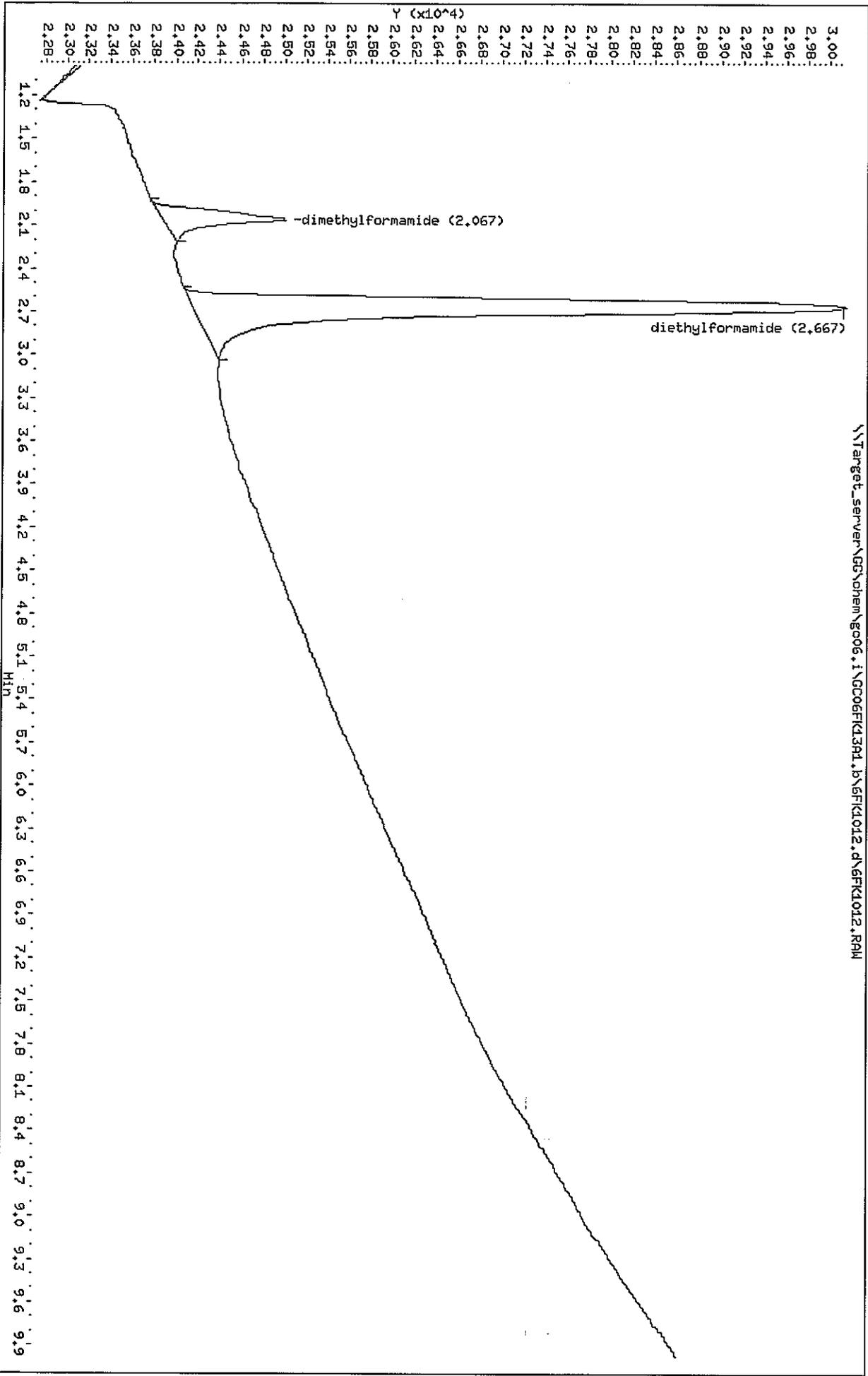
JLP
11/19/12

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc06.i\GC06FK13R1.b\6FK1012.d
Date: 13-NOV-2012 11:35
Client ID: Initial Calibration
Sample Info: MG116399-12
Purge Volume: 0.0
Column Phase: Stabilwax

Instrument: gc06.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1014.d
 Lab Smp Id: WG116399-13 Client Smp ID: Initial Calibration
 Inj Date : 13-NOV-2012 12:04
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116399-13
 Misc Info :
 Comment :
 Method : \\TARGET_SERVER\GG\chem\gc06.i\GC06FK13A1.B\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	AMOUNTS				CAL-AMT (mg/L)	ON-COL (mg/L)	REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE			
1 dimethylformamide	2.066	2.013	0.053	14839	1.00000	1.01 (AM)	M4

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

JLP
11/19/12

Data File: \\Target_server\GC\chem\gc06.i\GC06FK13P1.b\GF1014.d

Date: 13-NOV-2012 12:04

Client ID: Initial Calibration

Sample Info: MG116399-13

Purge Volume: 0.0

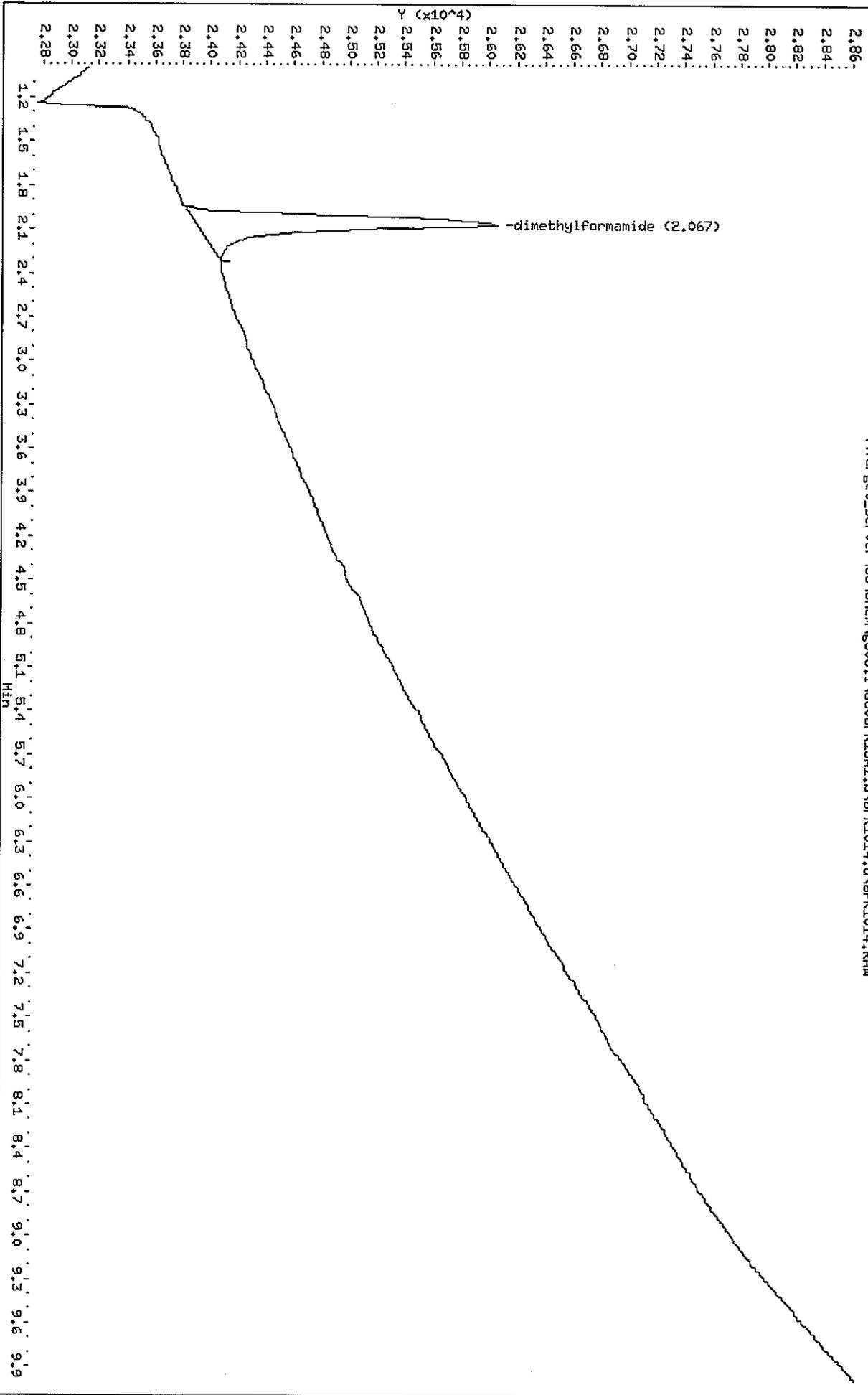
Column phase: Stabilwax

Instrument: gc06.i

Operator: JLP

Column diameter: 0.53

\\Target_server\GC\chem\gc06.i\GC06FK13P1.b\GF1014.d\GF1014.RAW



Form 7 Calibration Verification Summary

Lab Name : Katahdin Analytical Services

Project : RI Analytical - Wilmington

Lab ID : WG116399-14

Lab File ID : 6FK1028.d

Initial Calibration Date(s): 11/13/12 10:17 11/13/12 12:04

SDG: WIL-28

Analytical Date: 11/13/12 15:33

Instrument ID: GC06

Column ID: A

Compound	RRF/Amount	RF0.250	CCAL RRF0.250	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
1 dimethylformamide	0.25000	0.22777	12664	0.010	-8.89230	25.00000	Linear
2 diethylformamide	2.50000	2.62373	12288	0.010	4.94907	25.00000	Linear

* = Compound out of QC criteria

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1028.d
 Lab Smp Id: WG116399-14 Client Smp ID: ontinuing Calibrati
 Inj Date : 13-NOV-2012 15:33
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116399-14,WIL-28
 Misc Info : WG116399,WG116399-11,SF7935-8
 Comment :
 Method : \\TARGET_SERVER\GG\chem\gc06.i\GC06FK13A1.B\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	AMOUNTS				CAL-AMT (mg/L)	ON-COL (mg/L)	REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE			
1 dimethylformamide	2.053	2.013	0.040	3166	0.25000	0.228(M)	M4
\$ 2 diethylformamide	2.666	2.640	0.026	30720	2.50000	2.62	

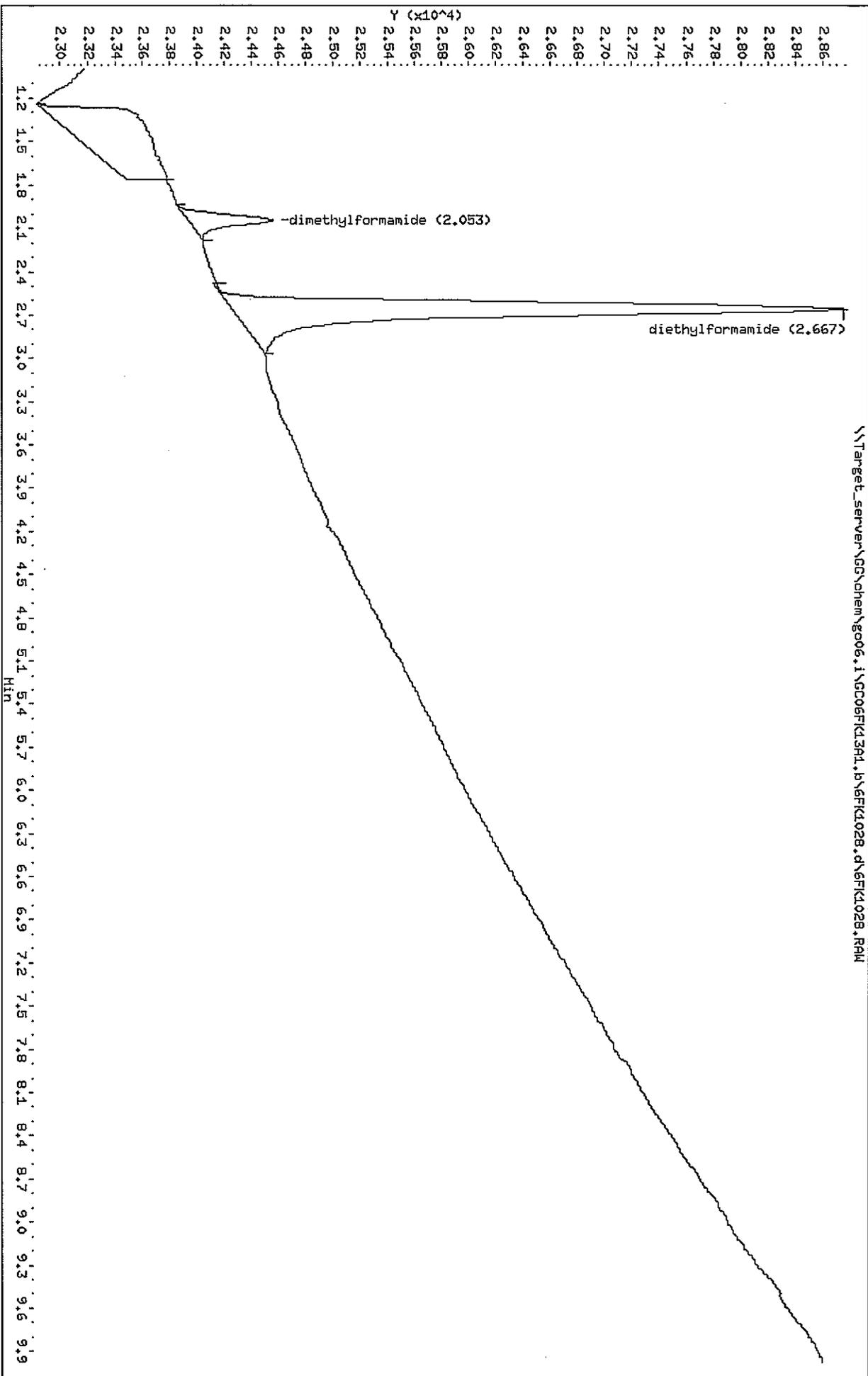
JLP
11/19/12

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc06.i\GC06FK13R1.b\FK1028.d
Date: 13-NOV-2012 15:33
Client ID: continuing Calibrati
Sample Info: MS16399-14, MIL-28
Purge Volume: 0.0
Column phase: Stabilwax

Instrument: gc06.i
Operator: JLP
Column diameter: 0.53



Form 7 Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : RI Analytical - Wilmington
Lab ID : WG116399-15
Lab File ID : 6FK1040.d
Initial Calibration Date(s): 11/13/12 10:17 11/13/12 12:04

SDG: WIL-28
Analytical Date: 11/13/12 18:28
Instrument ID: GC06
Column ID: A

Compound	RRF/Amount	RF0.250	CCAL RRF0.250	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
1 dimethylformamide	0.25000	0.20658	11404	0.010	-17.36929	25.00000	Linear
2 diethylformamide	2.50000	2.52709	11829	0.010	1.08365	25.00000	Linear

* = Compound out of QC criteria

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1040.d
 Lab Smp Id: WG116399-15 Client Smp ID: ontinuing Calibrati
 Inj Date : 13-NOV-2012 18:28
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116399-15,WIL-28
 Misc Info : WG116399,WG116399-11,SF7935-8
 Comment :
 Method : \\TARGET_SERVER\GG\chem\gc06.i\GC06FK13A1.B\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	AMOUNTS				CAL-AMT (mg/L)	ON-COL (mg/L)	REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE			
1 dimethylformamide	2.026	2.013	0.013	2851	0.25000	0.206(M)	M4
\$ 2 diethylformamide	2.640	2.640	0.000	29572	2.50000	2.53	

JLP
11/19/12

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\g006.i\GC06FK13R1.b\6FK1040.d

Date: 13-NOV-2012 18:28

Client ID: ongoing Calibrati

Sample Info: MGL16399-15, MIL-28

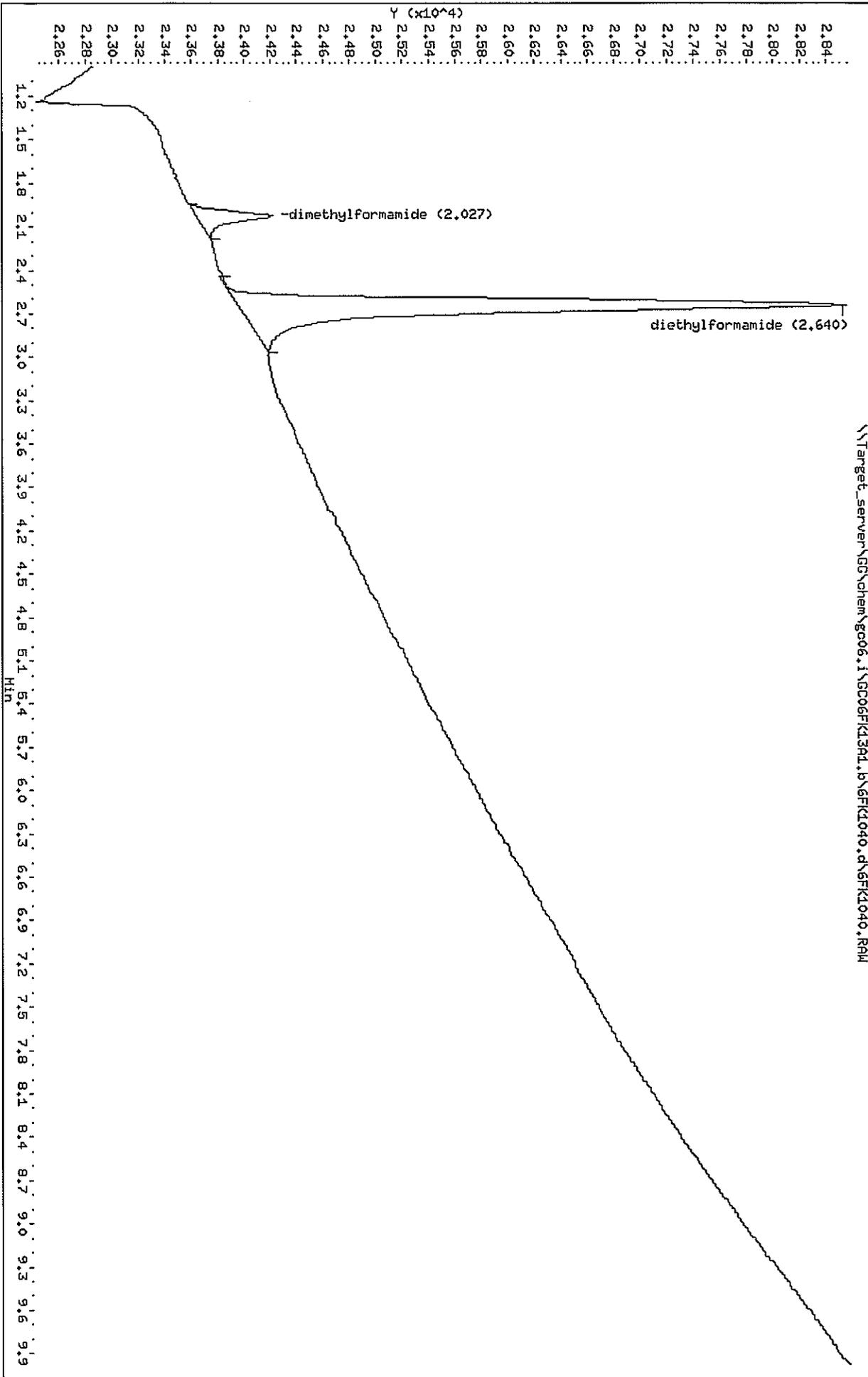
Purge Volume: 0.0

Column phase: Stabilwax

Instrument: g006.i

Operator: JLP

Column diameter: 0.53



Form 7

Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : RI Analytical - Wilmington
Lab ID : WG116399-16
Lab File ID : 6FK1048.d
Initial Calibration Date(s): 11/13/12 10:17 11/13/12 12:04

SDG: WIL-28
Analytical Date: 11/13/12 20:24
Instrument ID: GC06
Column ID: A

Compound	RRF/Amount	RF0.250	CCAL RRF0.250	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
1 dimethylformamide	0.25000	0.19480	10704	0.010	-22.07873	25.00000	Linear
2 diethylformamide	2.50000	2.48004	11605	0.010	-0.79856	25.00000	Linear

* = Compound out of QC criteria

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1048.d
 Lab Smp Id: WG116399-16 Client Smp ID: ontinuing Calibrati
 Inj Date : 13-NOV-2012 20:24
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116399-16,WIL-28
 Misc Info : WG116399,WG116399-11,SF7935-1
 Comment :
 Method : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\dmfA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Final Volume (L)
Vo	0.00109	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	AMOUNTS							REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (mg/L)	ON-COL (mg/L)		
1 dimethylformamide	2.040	2.013	0.027	2676	0.25000	0.195 (M)	M4	
\$ 2 diethylformamide	2.653	2.640	0.013	29013	2.50000	2.48		

JLP
11/19/12

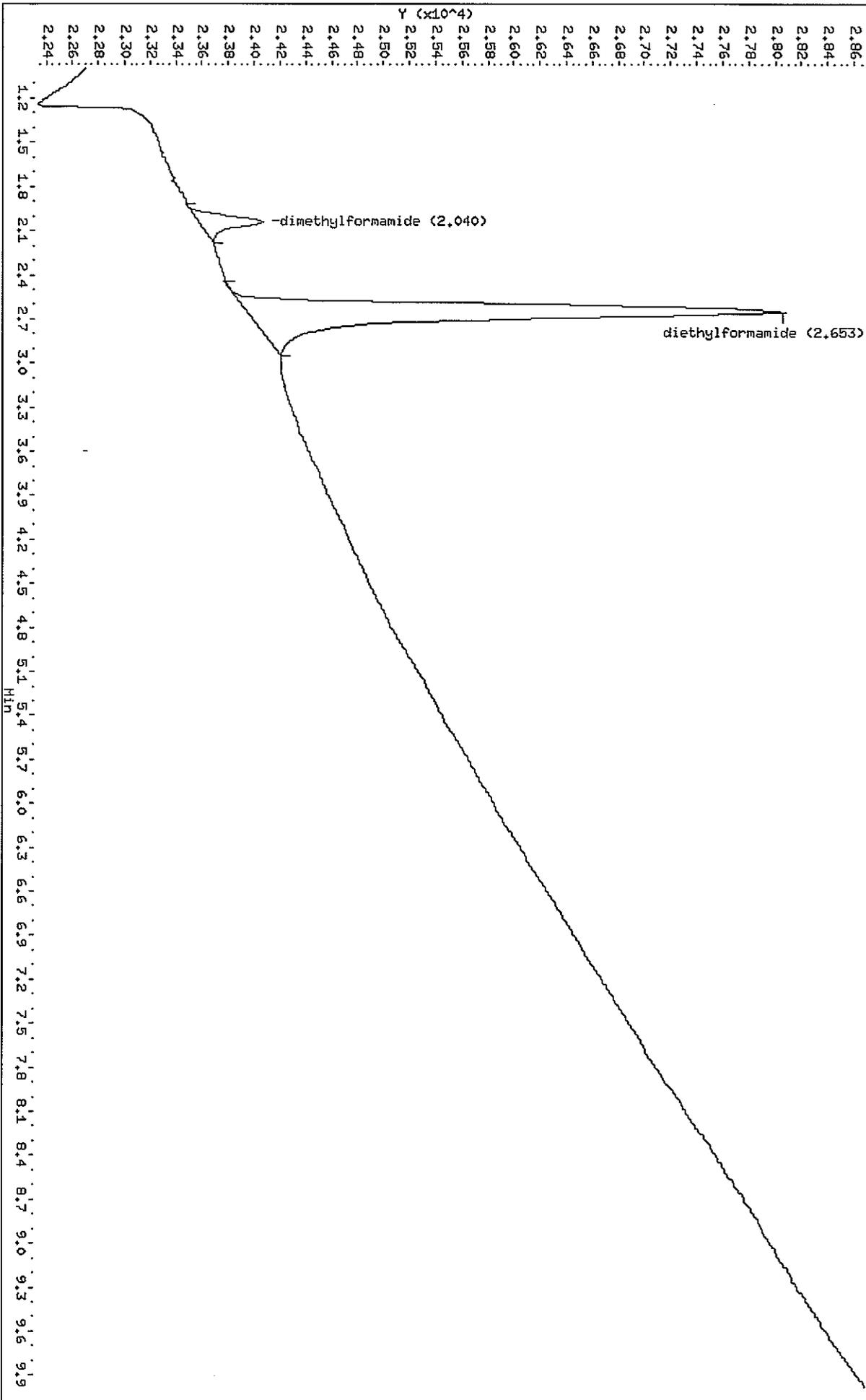
QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\g006.i\GC06FK1391.b\6FK1048.d
Date: 13-NOV-2012 20:24
Client ID: continuing Calibrati
Sample Info: MG116399-16, MIL-28
Purge Volume: 0.0
Column phase: Stabilwax

Instrument: g006.i
Operator: JLP
Column diameter: 0.53

\\Target_server\GG\chem\g006.i\GC06FK1391.b\6FK1048.d\6FK1048.RAW



Raw QC Data Section

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: RI Analytical - Wilmington
PO No:
Sample Date:
Received Date:
Extraction Date: 11/12/12
Analysis Date: 13-NOV-2012 18:57
Report Date: 11/20/2012
Matrix: SOIL
% Solids: 100

Lab ID: WG116361-1
Client ID: WG116361-Blank
SDG: WIL-28
Extracted by: JLP
Extraction Method: 8033M
Analyst: JLP
Analysis Method: SW846 8033M
Lab Prep Batch: WG116361
Units: mg/Kgdrywt

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	dimethylformamide	U	0.20	1.0	0.20	0.20	0.13
	diethylformamide		84%				

Page 01 of 01 6FK1042.d

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1042.d
 Lab Smp Id: WG116361-1 Client Smp ID: WG116361-Blank
 Inj Date : 13-NOV-2012 18:57
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116361-1,WIL-28
 Misc Info : WG116361,WG116399-11,SF7934-1
 Comment :
 Method : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\dmfA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of MeOH (L)
Ws	0.00100	Weight of Sample (Kg)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS				ON-COLUMN (mg/L)	FINAL (mg/Kgdrywt)	REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE			
\$ 2 diethylformamide	2.640	2.640	0.000	4516	0.41795	16.7 (M)	M4

JLP
11/19/12

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\FFK1042.d

Date: 13-NOV-2012 18:57

Client ID: W0116361-Blank

Sample Info: W0116361-1, MIL-28

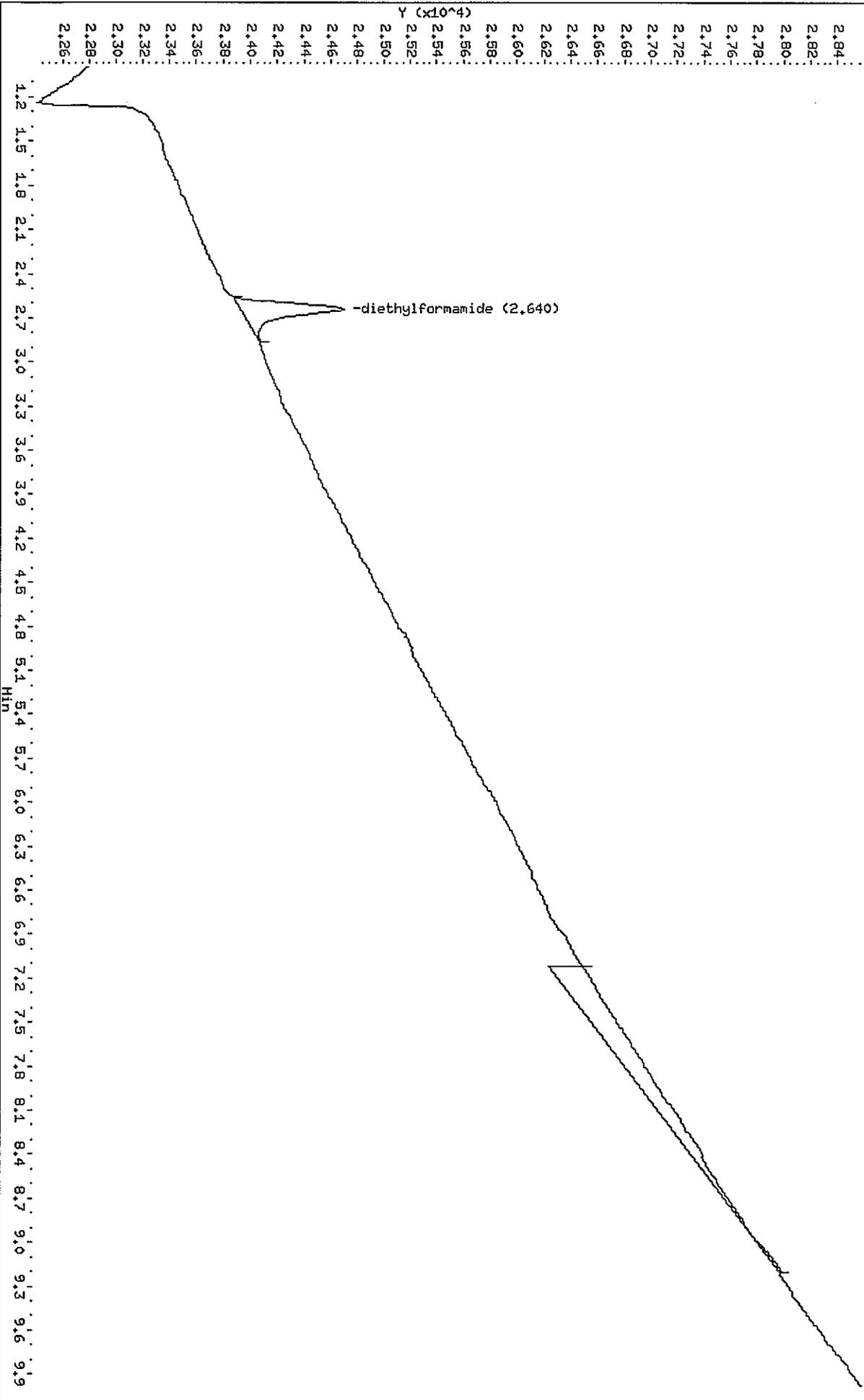
Instrument: gc06.i

Operator: JLP

Column diameter: 0.53

Column phase: Stablewax

\\Target_server\GG\chem\gc06.i\GC06FK13A1.b\FFK1042.d\FFK1042.RAW



Report of Analytical Results

Client:
Lab ID: WG116399-1
Client ID: Method Blank Sample
Project:
SDG: WIL-28
Lab File ID: 6FK1017.D

Sample Date:
Received Date:
Extract Date: 13-NOV-12
Extracted By: JLP
Extraction Method: SW846 8033M
Lab Prep Batch: WG116399

Analysis Date: 13-NOV-12
Analyst: JLP
Analysis Method: SW846 8033M
Matrix: AQ
% Solids: NA
Report Date: 20-NOV-12

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Dimethylformamide	U	0.020	mg/L	1	.02	0.020	0.0091
Diethylformamide		103.	%				

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1017.d
 Lab Smp Id: WG116399-1 Client Smp ID: WG116399-Blank
 Inj Date : 13-NOV-2012 12:48
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116399-1,WIL-28
 Misc Info : WG116399,WG116399-11,SF7935-1
 Comment :
 Method : \\TARGET_SERVER\GG\chem\gc06.i\GC06FK13A1.B\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS				ON-COLUMN (mg/L)	FINAL (mg/L)	REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE			
\$ 2 diethylformamide	2.653	2.640	0.013	5645	0.51298	0.513 (M)	M4

JLP
11/9/12

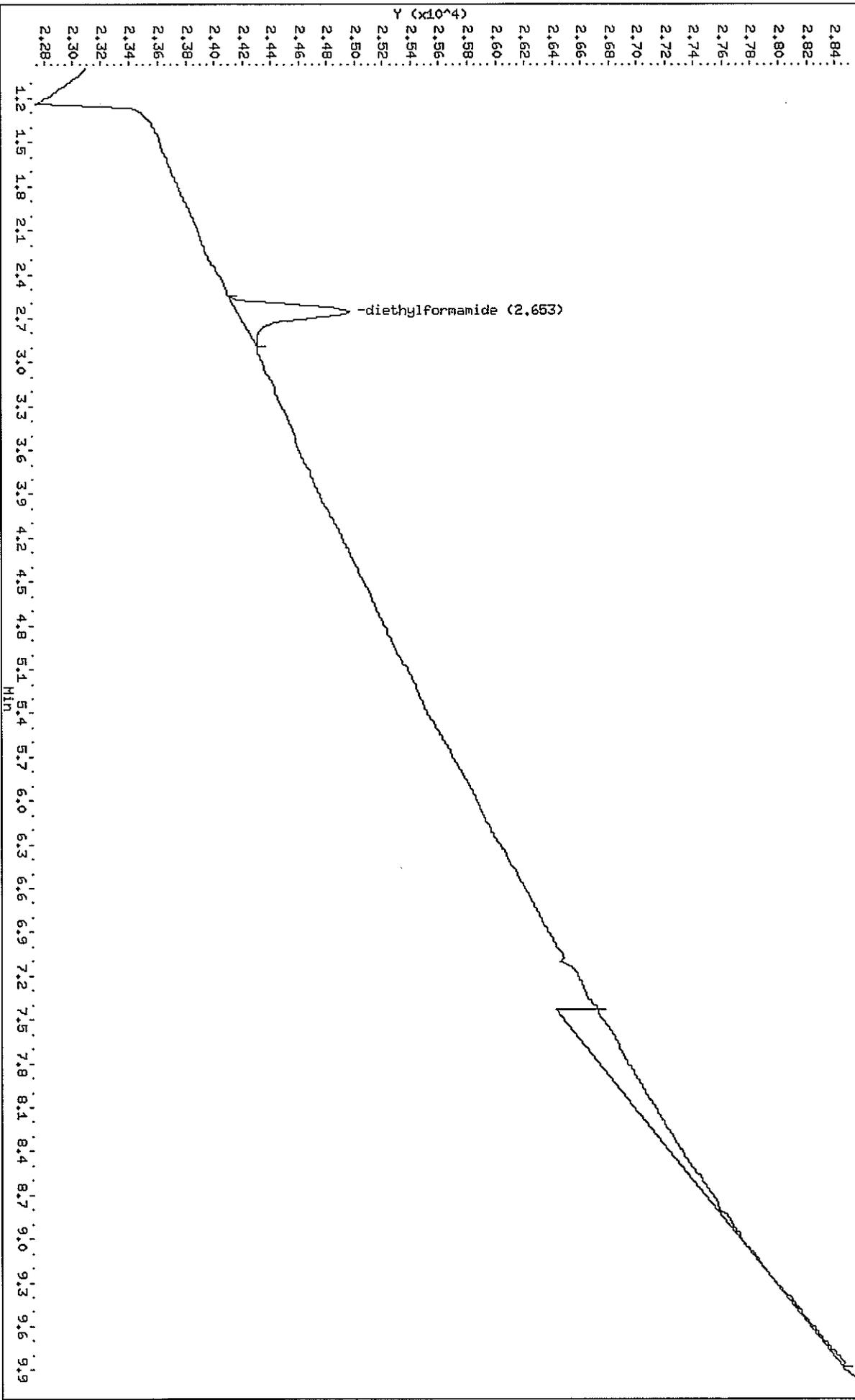
QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\g006.i\GC06FK13A1.b\6FK1017.d
Date: 13-NOV-2012 12:48
Client ID: MG116399-Blank
Sample Info: MG116399-1.MIL-28
Purge Volume: 0.0
Column phase: Stabilwax

Instrument: g006.i
Operator: JLP
Column diameter: 0.53

\\Target_server\GG\chem\g006.i\GC06FK13A1.b\6FK1017.d\6FK1017.RAW



KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:	Lab ID: WG116361-2& WG116361-3
Project: RI Analytical - Wilmington	Client ID: WG116361-LCS & WG116361-LCSD
PO No:	SDG: WIL-28
Sample Date:	Extracted by: JLP
Received Date:	Extraction Method: 8033M
Extraction Date: 11/12/12	Analyst: JLP
Analysis Date: 11/13/12	Analysis Method: SW846 8033M
Report Date: 11/20/2012	Lab Prep Batch: WG116361
Matrix: SOIL	Units: mg/Kgdrywt

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	LIMIT	QC. LIMITS
dimethylformamide	10	10	NA	8.4	8.1	84	81	4	50	70-130

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1043.d
 Lab Smp Id: WG116361-2 Client Smp ID: WG116361-LCS
 Inj Date : 13-NOV-2012 19:12
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116361-2,WIL-28
 Misc Info : WG116361,WG116399-11,SF7934-1
 Comment :
 Method : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\dmfA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of MeOH (L)
Ws	0.00100	Weight of Sample (Kg)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds					CONCENTRATIONS		REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (mg/L)	FINAL (mg/Kgdrywt)	
1 dimethylformamide	2.026	2.013	0.013	2903	0.21008	8.40 (M)	M4
\$ 2 diethylformamide	2.653	2.640	0.013	5292	0.48327	19.3 (M)	

VLP
11/19/12

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\g006.i\GC06FK13A1.b\6FK1043.d

Date: 13-NOV-2012 19:12

Client ID: MG116361-LCS

Sample Info: MG116361-2.MIL-2B

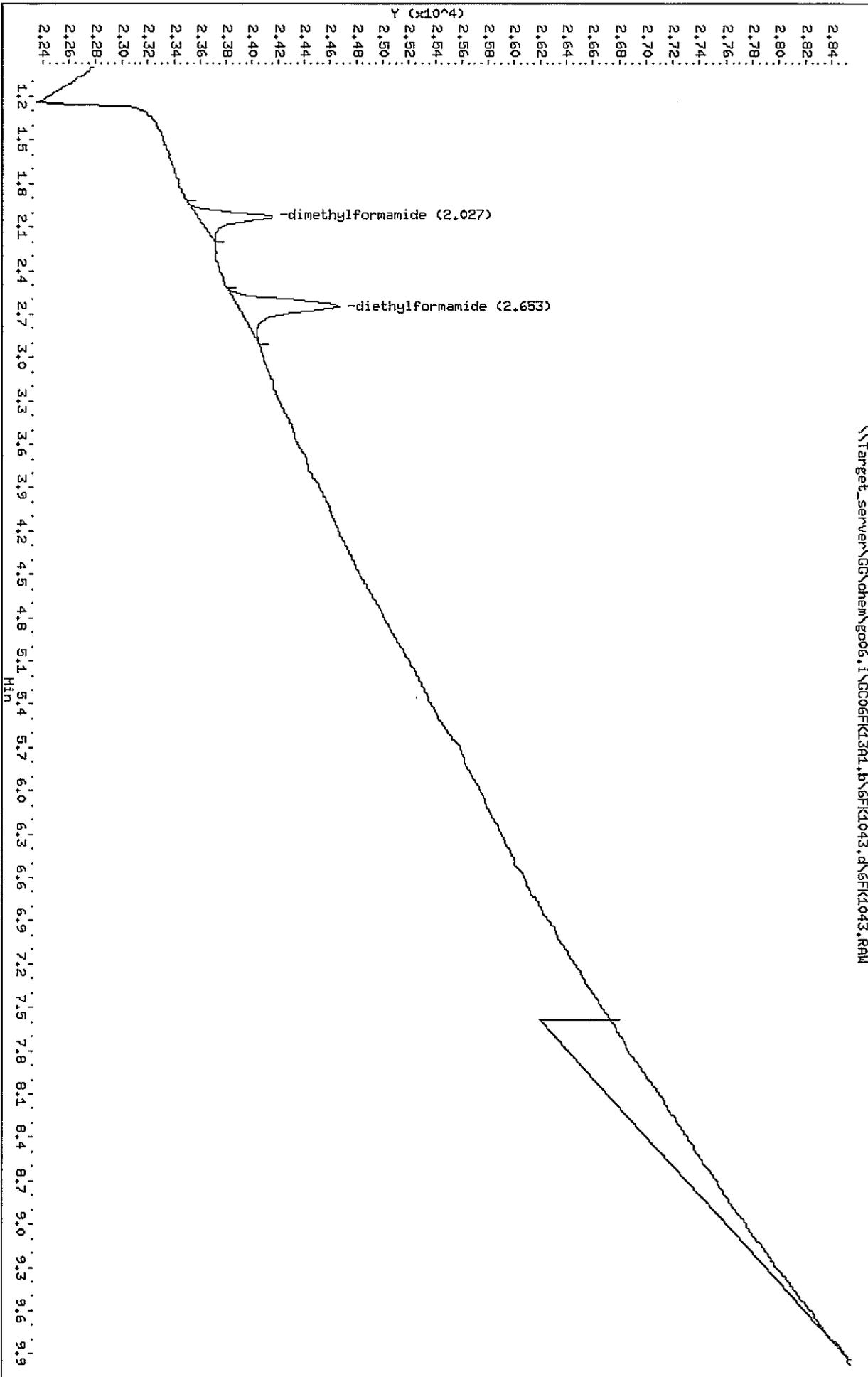
Instrument: g006.i

Operator: JLP

Column diameter: 0.53

Column phase: Stabilwax

\\Target_server\GG\chem\g006.i\GC06FK13A1.b\6FK1043.d\6FK1043.RA1



Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1044.d
 Lab Smp Id: WG116361-3 Client Smp ID: WG116361-LCSD
 Inj Date : 13-NOV-2012 19:26
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116361-3,WIL-28
 Misc Info : WG116361,WG116399-11,SF7934-1
 Comment :
 Method : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\dmfA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Ws)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.04000	Volume of MeOH (L)
Ws	0.00100	Weight of Sample (Kg)
M	0.00000	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS		REVIEW CODE
					ON-COLUMN (mg/L)	FINAL (mg/Kgdrywt)	
1 dimethylformamide	2.026	2.013	0.013	2786	0.20220	8.09 (M)	
\$ 2 diethylformamide	2.640	2.640	0.000	4943	0.45389	18.2 (M)	M4

JW
11/19/12

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\g006.i\GC06FKL3R1.b\6FKL044.d

Date: 13-NOV-2012 19:26

Client ID: MG116361-LCSD

Sample Info: MG116361-2, MIL-28

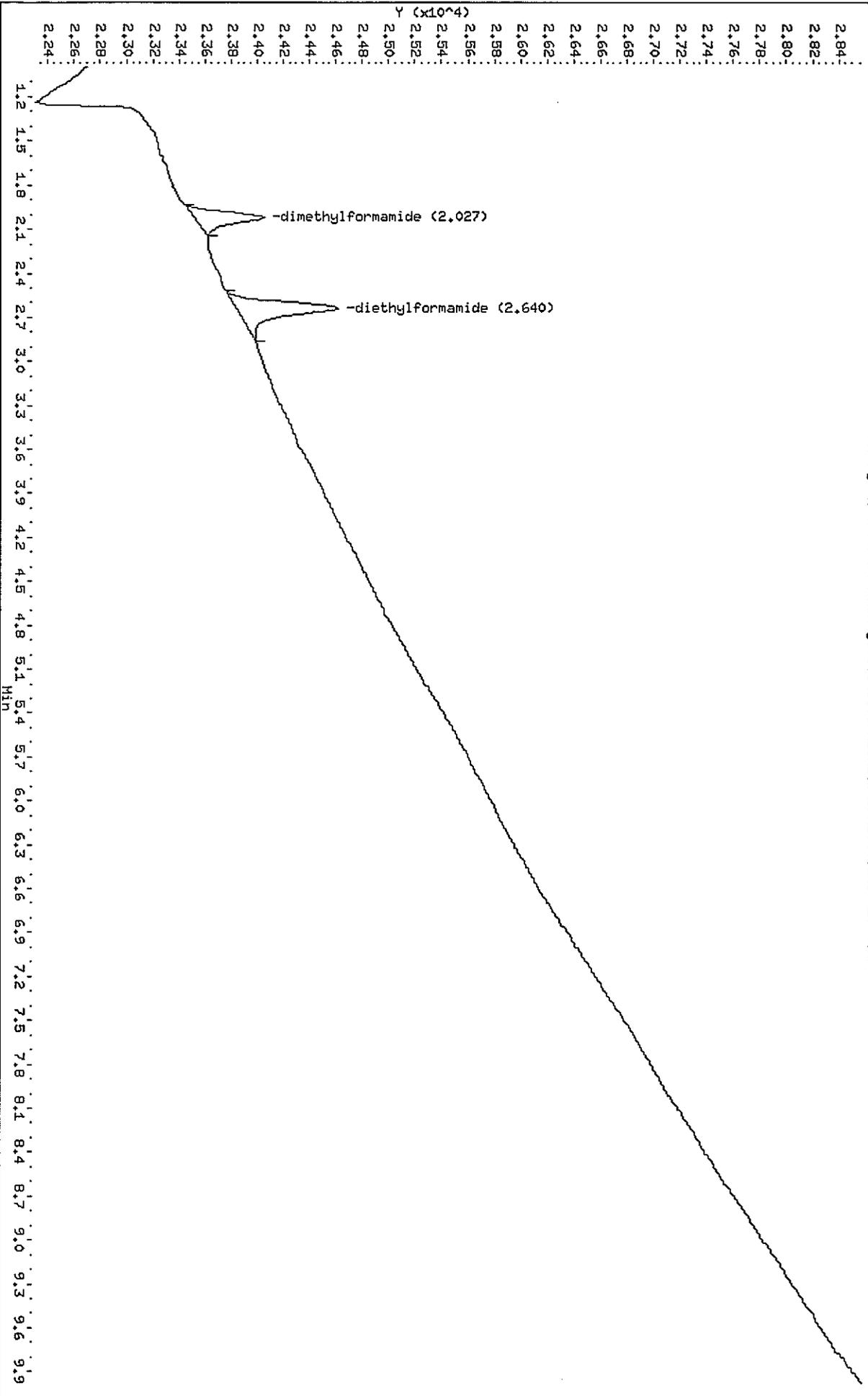
Instrument: g006.i

Operator: JLP

Column diameter: 0.53

Column phase: Stabilwax

\\Target_server\GG\chem\g006.i\GC06FKL3R1.b\6FKL044.d\6FKL044.RAW



LCS/LCSD Recovery Report

LCS ID: WG116399-2
LCSD ID: WG116399-3
Project:
SDG: WIL-28
Report Date: 20-NOV-12
LCS File ID: 6FK1018.D

Received Date:
Extract Date: 13-NOV-12
Extracted By: JLP
Extraction Method: SW846 8033M
Lab Prep Batch: WG116399
LCSD File ID: 6FK1019.D

Analysis Date: 13-NOV-12
Analyst: JLP
Analysis Method: SW846 8033M
Matrix: AQ
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Dimethylformamide	0.100	0.0920	92.0	0.108	108.	mg/L	16	30	70-130
Diethylformamide			99.0		108.				70-130

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1018.d
 Lab Smp Id: WG116399-2 Client Smp ID: WG116399-LCS
 Inj Date : 13-NOV-2012 13:03
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116399-2,WIL-28
 Misc Info : WG116399,WG116399-11,SF7935-1
 Comment :
 Method : \\TARGET_SERVER\GG\chem\gc06.i\GC06FK13A1.B\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS				ON-COLUMN (mg/L)	FINAL (mg/L)	REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE			
1 dimethylformamide	2.053	2.013	0.040	1148	0.09200	0.0920 (M)	M4
\$ 2 diethylformamide	2.666	2.640	0.026	5436	0.49539	0.495	

JLP
11/19/12

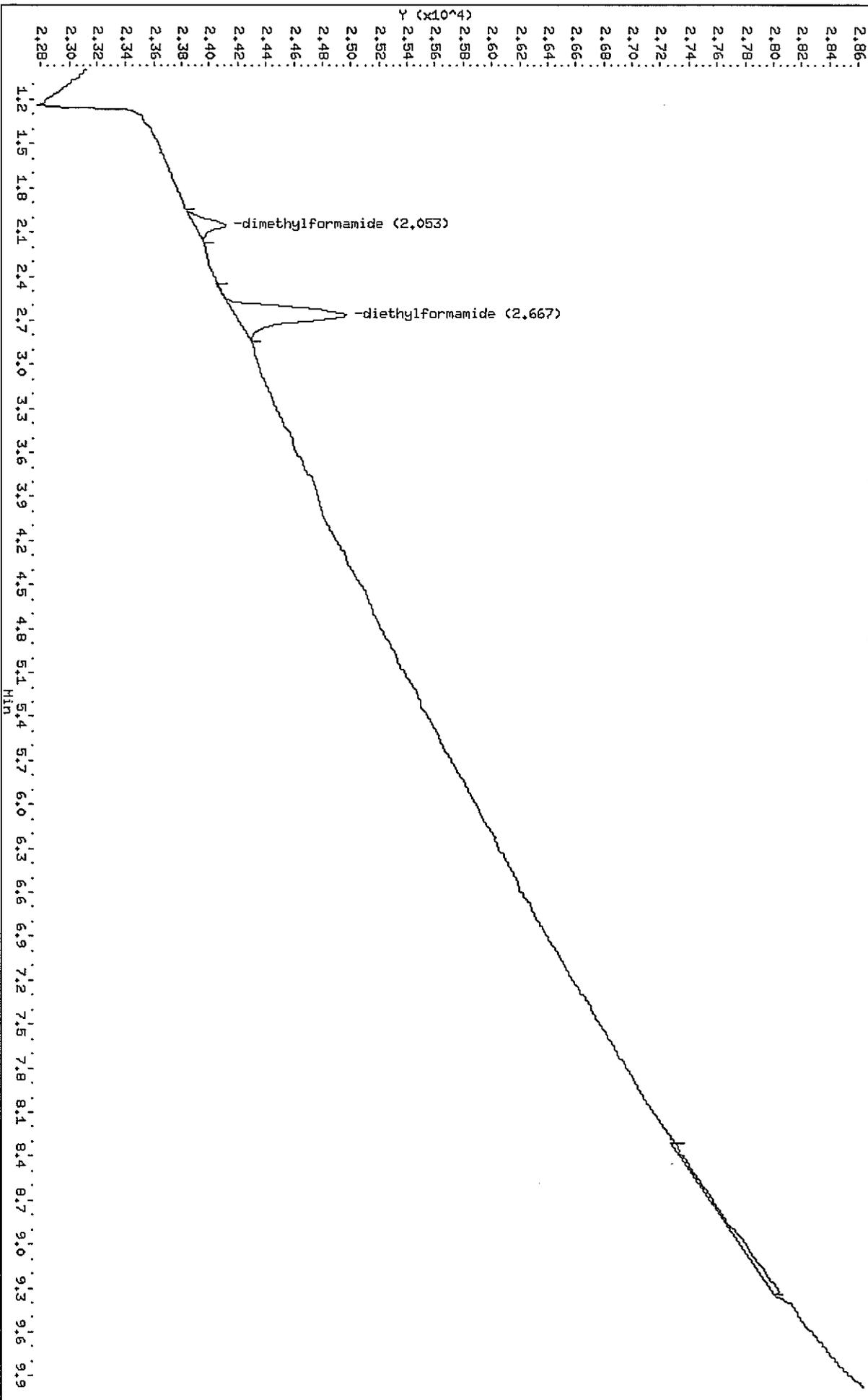
QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GC\chem\gc06.i\GC06FK13A1.b\6FK101B.d
Date: 13-NOV-2012 13:03
Client ID: WGI16399-LCS
Sample Info: WGI16399-2.MIL-28
Purge Volume: 0.0
Column phase: Stabilwax

Instrument: gc06.i
Operator: JLP
Column diameter: 0.53

\\Target_server\GC\chem\gc06.i\GC06FK13A1.b\6FK101B.d\6FK101B.RAW



Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1019.d
 Lab Smp Id: WG116399-3 Client Smp ID: WG116399-LCSD
 Inj Date : 13-NOV-2012 13:18
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116399-3,WIL-28
 Misc Info : WG116399,WG116399-11,SF7935-1
 Comment :
 Method : \\TARGET_SERVER\GG\chem\gc06.i\GC06FK13A1.B\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds					CONCENTRATIONS		REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (mg/L)	FINAL (mg/L)	
1 dimethylformamide	2.066	2.013	0.053	1383	0.10781	0.108 (M)	M4
\$ 2 diethylformamide	2.653	2.640	0.013	5961	0.53958	0.540 (M)	

JL
11/19/12

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\g006.i\GC06FKL3A1.b\GFKL019.d

Date: 13-NOV-2012 13:18

Client ID: MG116399-LCSD

Sample Info: MG116399-3.MIL-28

Purge Volume: 0.0

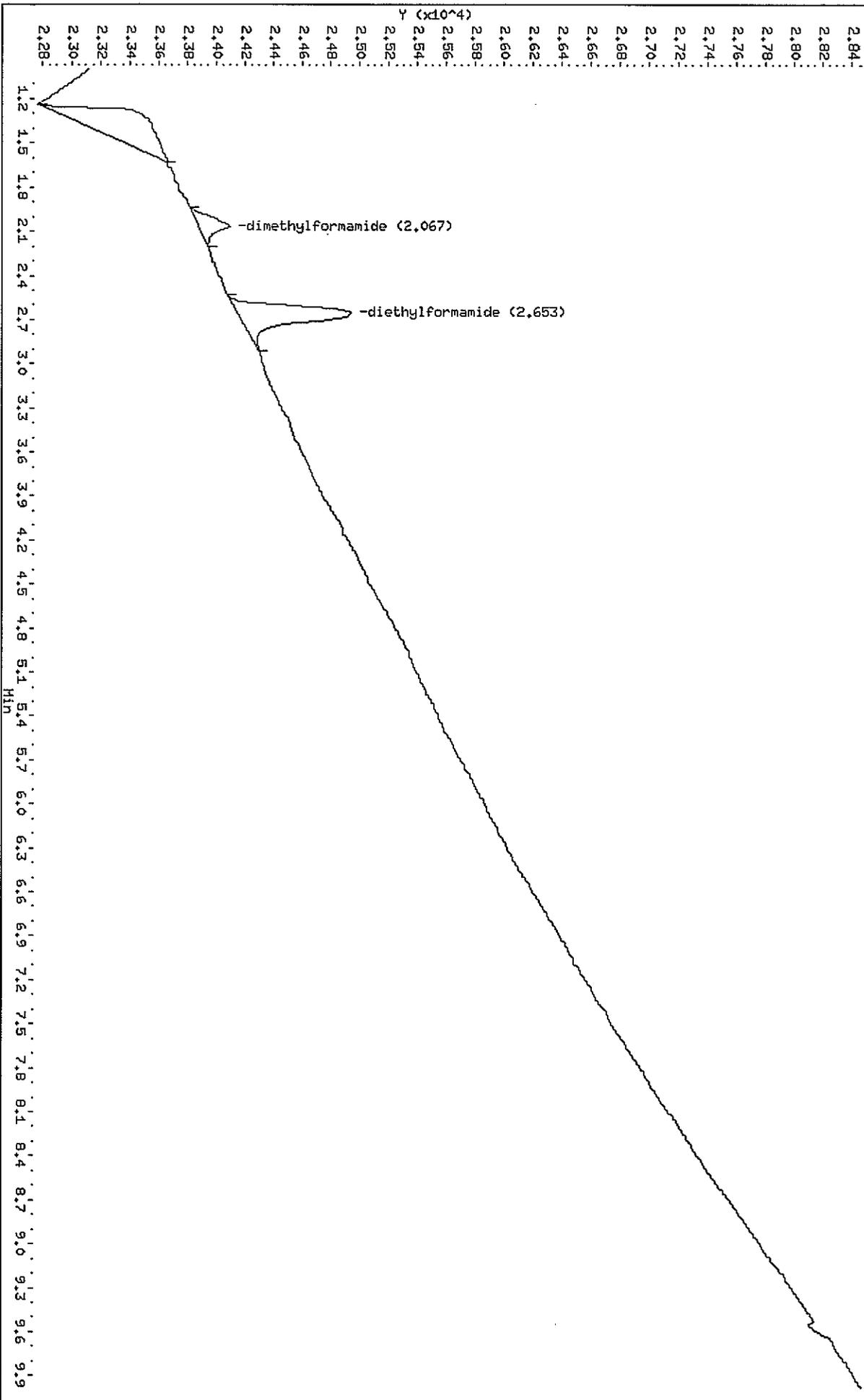
Column phase: Stabilwax

Instrument: g006.i

Operator: JLP

Column diameter: 0.53

\\Target_server\GG\chem\g006.i\GC06FKL3A1.b\GFKL019.d\GFKL019.RAW



MS/MSD Recovery Report

MS ID: WG116399-5
MSD ID: WG116399-6
Sample ID: SF7935-8
Client ID: OC-GW-400M-XXX
Project:
SDG: WIL-28
MS File ID: 6FK1033.D

Received Date: 09-NOV-12
Extract Date: 13-NOV-12
Extracted By: JLP
Extraction Method: SW846 8033M
Lab Prep Batch: WG116399
Report Date: 20-NOV-12
MSD File ID: 6FK1034.d

Analysis Date: 13-NOV-12
Analyst: JLP
Analysis Method: SW846 8033M
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Dimethylformamide	0.100	0.100	mg/L	U0.020	0.078	0.094	78.3	93.9	18	30	70-130
Diethylformamide							94.8	102.			70-130

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1033.d
 Lab Smp Id: WG116399-5 Client Smp ID: OC-GW-400M-XXXMS
 Inj Date : 13-NOV-2012 16:46
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116399-5,WIL-28
 Misc Info : WG116399,WG116399-11,SF7935-8
 Comment :
 Method : \\TARGET_SERVER\GG\chem\gc06.i\GC06FK13A1.B\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS					ON-COLUMN (mg/L)	FINAL (mg/L)	REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE				
1 dimethylformamide	2.040	2.013	0.027	944	0.07828	0.0783 (M)		
\$ 2 diethylformamide	2.653	2.640	0.013	5182	0.47401	0.474 (M)	M4	

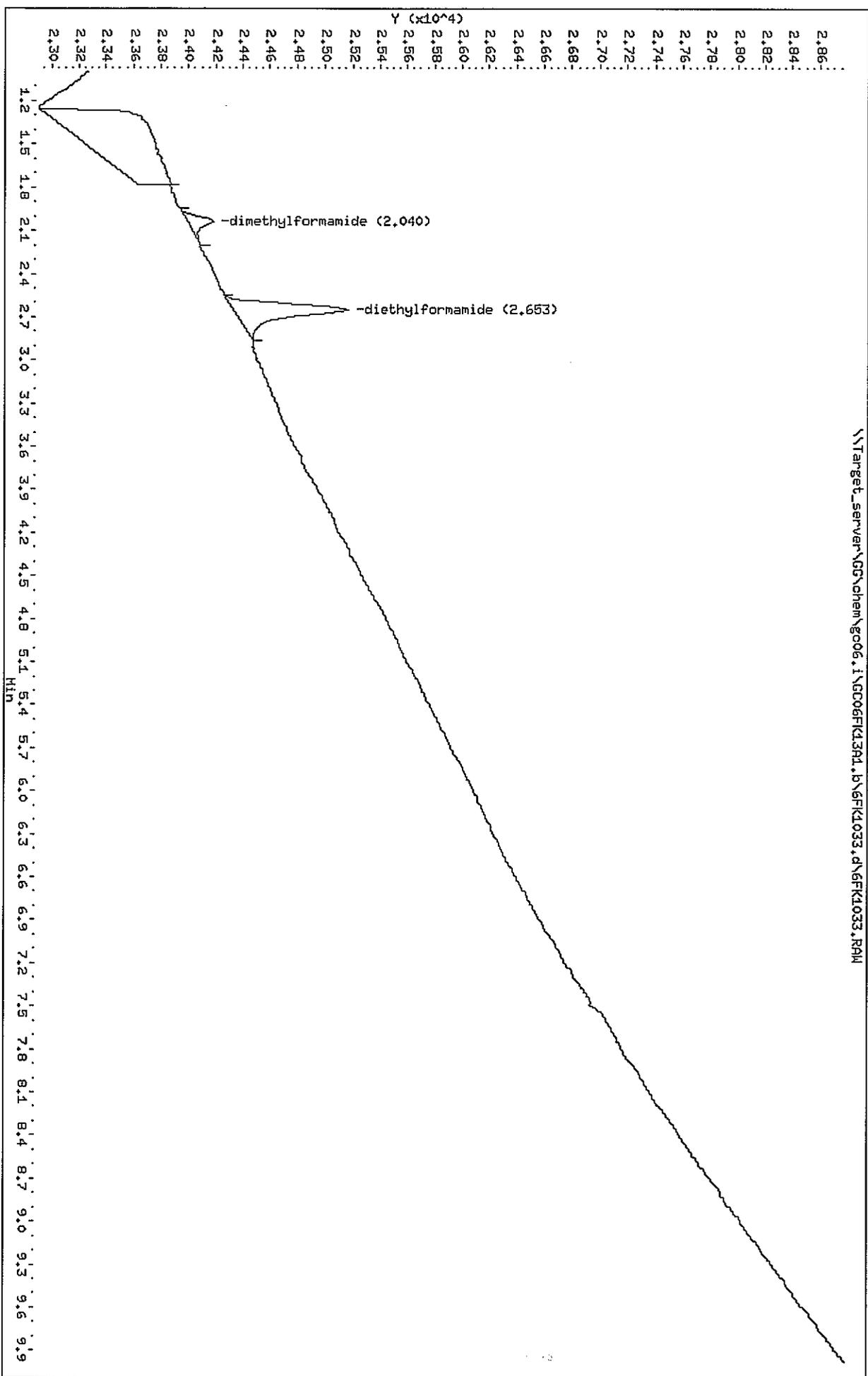
JLP
11/19/12

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\GG\chem\gc006.i\GC06FK13R1.b\6FK1033.d
Date: 13-NOV-2012 16:46
Client ID: QC-GH-400H-KKKHS
Sample Info: MG116399-5, MIL-28
Purge Volume: 0.0
Column phase: Stabilwax

Instrument: gc06.i
Operator: JLP
Column diameter: 0.53



Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06FK13A1.b\6FK1034.d
 Lab Smp Id: WG116399-6 Client Smp ID: OC-GW-400M-XXXMSD
 Inj Date : 13-NOV-2012 17:01
 Operator : JLP Inst ID: gc06.i
 Smp Info : WG116399-6,WIL-28
 Misc Info : WG116399,WG116399-11,SF7935-8
 Comment :
 Method : \\TARGET_SERVER\GG\chem\gc06.i\GC06FK13A1.B\DMFA11A.m
 Meth Date : 19-Nov-2012 14:38 gc06.i Quant Type: ESTD
 Cal Date : 13-NOV-2012 12:04 Cal File: 6FK1014.d
 Als bottle: 1 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: SW8033M.sub
 Target Version: 4.12
 Processing Host: V200T2

Concentration Formula: Amt * DF * (Vt/Vo) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	0.00100	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds					CONCENTRATIONS		REVIEW CODE
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (mg/L)	FINAL (mg/L)	
1 dimethylformamide	2.026	2.013	0.013	1176	0.09389	0.0939 (M)	M4
\$ 2 diethylformamide	2.653	2.640	0.013	5615	0.51046	0.510	

JUP
11/19/12

QC Flag Legend

M - Compound response manually integrated.

Data File: \\Target_server\60\chem\gc06.i\GC06FK1391.b\6FK1034.d

Date: 13-NOV-2012 17:01

Client ID: DC-GW-400H-XXXXSD

Sample Info: MGL16399-6, MIL-28

Purge Volume: 0.0

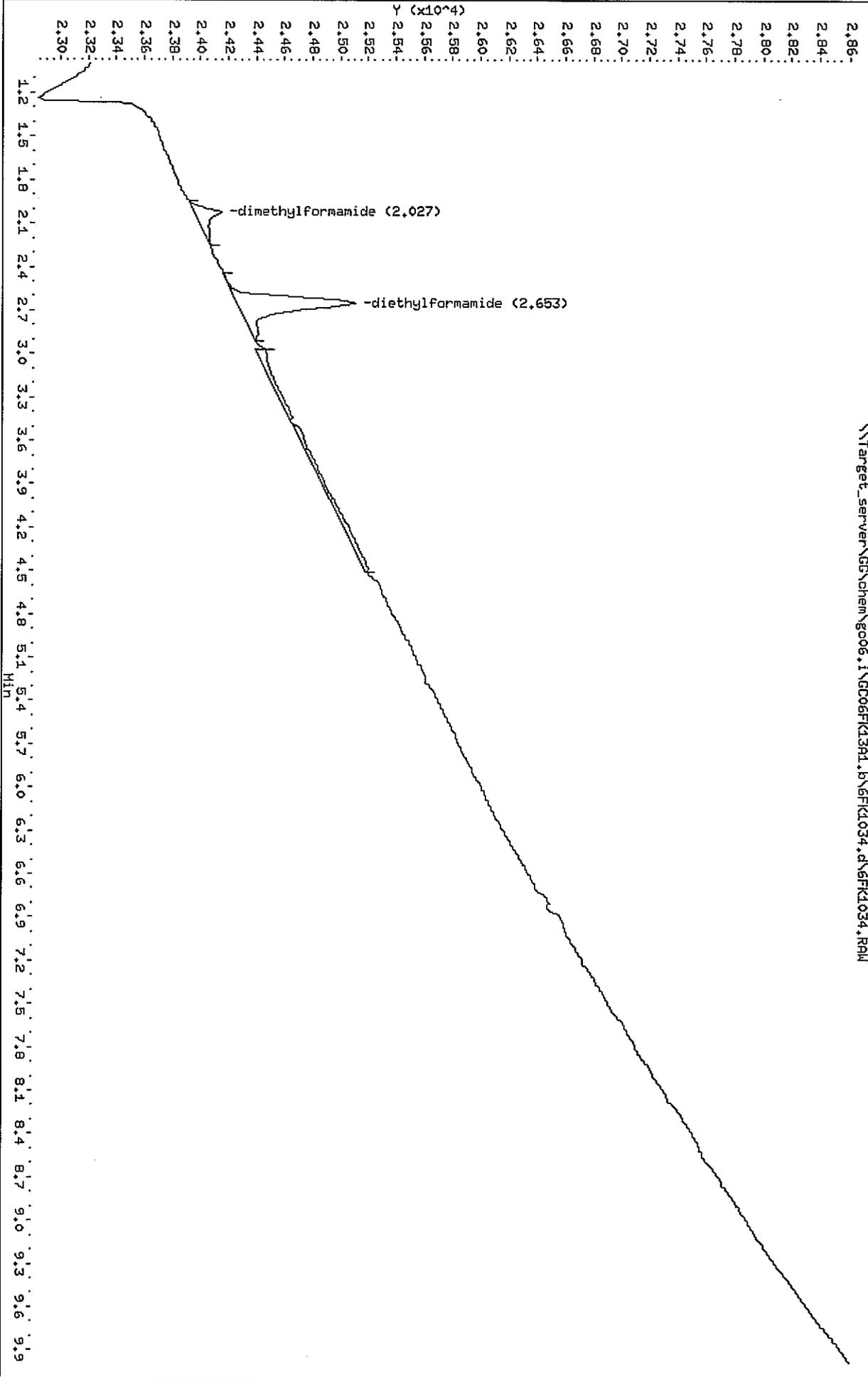
Column Phase: Stabilwax

Instrument: gc06.i

Operator: JLP

Column diameter: 0.53

\\Target_server\60\chem\gc06.i\GC06FK1391.b\6FK1034.d\6FK1034.RAW



Logbooks and Supporting Documents

8033

Katahdin Analytical Services, Inc.
GC Laboratory Instrument Runlog
Instrument: GC06
Amount Injected 1ul

Methods: SW846 8081 / 8082 / 8151
EPA 504 / 556 / 608

Reviewed by/ Date:

AQ BLANKS + SAMPLES 5ul GCV2905 MS/MSD + LC5/D 5ul GCV2905 + 10ul GCV2905

Date	Init.	Result File	Sample ID	Y/N	Method	Column	Comments
11-13-12	JUP	WPK10003	CV	N	DMPA10A	342	
			04 ↓				
			05 Water				
			06 low pt	↓			
			07 WG116399-7	Y			0.005 GCV2916
			08 ↓ -8				0.02 GCV2910
			09 ↓ -9				0.05 ~ GCV2911
			10 ↓ -10				0.251 ~ GCV2912
			-11 ↓ -11				0.5 ~ GCV2913
			12 ↓ -12				0.5 GCV2914
			13 Water	N			
			14 WG116399-13	Y			1.0 GCV2915
			15 Water	N			
			16 ↓	N			
			17 WG116399-1	Y			AQ
			18 ↓ -2	Y			
			19 ↓ -3	Y			
			20 Water				
			21 WG116399-4				Dup of SF7935-1
			-22 SF7935-1				
			23 ↓ -2				
			24 ↓ -3				
			25 ↓ -4				
			26 ↓ -5				
			27 ↓ -6				
			28 WG116399-14				GCV2913
			29 Water	N			
			30 SF7935-7	Y			
			31 ↓ -8				
			32 ↓ -9				
			33 WG116399-5				SF7935-8 MS
			34 ↓ -6				-8MSD

8033

Katahdin Analytical Services, Inc.

GC Laboratory Instrument Runlog

Instrument: GC06

Amount Injected

Methods: SW846 8081 / 8082 / 8151

EPA 504 / 556 / 608

Reviewed by/ Date:

AQ Samples Sub GCV2905

Date	Init.	Result File	Sample ID	Y/N	Method	Column	Comments
11-13-12	JR	WPK10 35	Water	N	DMPA10A	342	AQ
		36	SP7940-1	Y			
		37	-2				
		38	-3				
		39	-4				
		40	WG116399-15	Y			GCV2913
		41	Water	N			
		42	WG1163101-1	Y			SL
		43	-2				
		44	-3				
		45	Water	N			
		46	WG116301-4	Y			
		-47	SP7934-1	Y			
		48	WG116399-16	Y			GCV2913
		49	Water	N			

CONVENTIONAL AND PHYSICAL ANALYTICAL DATA

QC Summary Section

Quality Control Report
Blank Sample Summary Report

Total Solids

<u>Samp Type</u>	<u>QC Batch</u>	<u>Anal. Method</u>	<u>Anal. Date</u>	<u>Prep. Date</u>	<u>Result</u>	<u>PQL</u>
MBLANK	WG116391	ASTM D2216	14-NOV-12	14-NOV-12	U 1 %	1 %

Quality Control Report
Laboratory Control Sample Summary Report

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG116391-2	LCS	WG116391	14-NOV-12	14-NOV-12	%	90	92.	103	80-120	

Sample Data Section

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS
(Refer to BOD Qualifiers Page for BOD footnotes)

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

I-7 The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 Please refer to cover letter or narrative for further information.

MCL Maximum Contaminant Level

NL No limit

NFL No Free Liquid Present

FLP Free Liquid Present

NOD No Odor Detected

TON Threshold Odor Number

H_ Please note that the regulatory holding time for _____ is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. _____ for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H1 pH
H2 DO
H3 sulfite
H4 residual chlorine

T1 The client did not provide the full volume of at least one liter for analysis of TSS. Therefore, the PQL of 2.5 mg/L could not be achieved.

T2 The client provided the required volume of at least one liter for analysis of TSS, but the laboratory could not filter the full one liter volume due to the sample matrix. Therefore, the PQL of 2.5 mg/L could not be achieved.

Report of Analytical Results

Client: Mr. Chris Ricardi
 AMEC E&I
 P.O. Box 7050 DTS
 Portland, ME 04112-7050

Lab Sample ID: SF7934-1
 Report Date: 15-NOV-12
 Client PO: REW10021 CONTRACT-ERRE9844
 Project: RI Analytical - Wilmington
 SDG: WIL-28

Sample Description
 OC-SD-EDSD/SW7-XXX

Matrix Date Sampled Date Received
 SL 06-NOV-12 09-NOV-12

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	81. %	1		SM2540G	WG116391	14-NOV-12 13:15:36	ASTM D2216	14-NOV-12	KP	

Raw Data Section

TOTAL SOLIDS BATCH REPORT
 Nov 14 2012, 01:44 pm
 Batch: WGL16391

Sample	Matrix	Type	Batch	Prep Date	Tare	Initial	Final	by	Date	Raw TS	Rep TS	Recovery	RPD
3F7906-6	SL	SAMP	WGL16391	14-NOV-12	1.3302 g	9.8066 g	7.9397 g	KP	14-NOV-12	77.9750	78. %		
3F7906-7	SL	SAMP	WGL16391	14-NOV-12	1 g	5 g	5 g	KP	14-NOV-12	100.0000	100 %		
3F7907-1	SL	SAMP	WGL16391	14-NOV-12	1 g	5 g	5 g	KP	14-NOV-12	100.0000	100 %		
3F7907-10	SL	SAMP	WGL16391	14-NOV-12	1.3299 g	15.6932 g	12.5486 g	KP	14-NOV-12	78.1070	78. %		
3F7907-11	SL	SAMP	WGL16391	14-NOV-12	1.3283 g	14.0947 g	13.198 g	KP	14-NOV-12	92.9760	93. %		
3F7907-12	SL	SAMP	WGL16391	14-NOV-12	1.3284 g	13.955 g	11.1443 g	KP	14-NOV-12	77.7400	78. %		
3F7907-2	SL	SAMP	WGL16391	14-NOV-12	1.3316 g	14.484 g	11.6589 g	KP	14-NOV-12	78.5200	78. %		
3F7907-3	SL	SAMP	WGL16391	14-NOV-12	1.3315 g	16.9711 g	15.3526 g	KP	14-NOV-12	89.6510	90. %		
3F7907-4	SL	SAMP	WGL16391	14-NOV-12	1.3259 g	18.7075 g	16.2221 g	KP	14-NOV-12	85.7010	86. %		
3F7907-5	SL	SAMP	WGL16391	14-NOV-12	1.324 g	13.805 g	11.1813 g	KP	14-NOV-12	78.9780	79. %		
3F7907-6	SL	SAMP	WGL16391	14-NOV-12	1.3256 g	13.2942 g	12.0147 g	KP	14-NOV-12	89.3100	89. %		
3F7907-7	SL	SAMP	WGL16391	14-NOV-12	1.3294 g	14.8095 g	12.0189 g	KP	14-NOV-12	79.2980	79. %		
3F7907-8	SL	SAMP	WGL16391	14-NOV-12	1.3256 g	13.2942 g	12.0147 g	KP	14-NOV-12	89.3100	89. %		
3F7907-9	SL	SAMP	WGL16391	14-NOV-12	1.329 g	18.4756 g	16.2534 g	KP	14-NOV-12	87.0400	87. %		
3F7908-1	SL	SAMP	WGL16391	14-NOV-12	1 g	5 g	5 g	KP	14-NOV-12	100.0000	100 %		
3F7908-2	SL	SAMP	WGL16391	14-NOV-12	1.3254 g	16.2093 g	13.1374 g	KP	14-NOV-12	79.3610	79. %		
3F7908-3	SL	SAMP	WGL16391	14-NOV-12	1.3347 g	13.8623 g	11.5475 g	KP	14-NOV-12	81.5220	82. %		
3F7934-1	SL	SAMP	WGL16391	14-NOV-12	1.3277 g	19.3767 g	15.9379 g	KP	14-NOV-12	80.9470	81. %		
3F7950-1	SL	SAMP	WGL16391	14-NOV-12	1.3255 g	14.3499 g	13.1278 g	KP	14-NOV-12	90.6170	91. %		
3F7975-1	SL	SAMP	WGL16391	14-NOV-12	1.3287 g	15.6994 g	14.3155 g	KP	14-NOV-12	90.3700	90. %		
WGL16391-1	SL	MBLANK	WGL16391	14-NOV-12	1.3279 g	1.8303 g	1.3268 g	KP	14-NOV-12	-0.2190	1 %		
WGL16391-2	SL	LGS	WGL16391	14-NOV-12	1.3271 g	7.7312 g	7.2491 g	KP	14-NOV-12	92.4720	92. %	103	
WGL16391-3	SL	DUP	WGL16391	14-NOV-12	1.327 g	9.1664 g	7.4053 g	KP	14-NOV-12	77.5350	78. %		
WGL16391-4	SL	DUP	WGL16391	14-NOV-12	1.3265 g	15.2811 g	13.8127 g	KP	14-NOV-12	89.4770	89. %		

Comments:

3F7906-7 lb, no ts jar
 3F7907-1 use results from SF7906-1
 3F7907-8 use results from SF7906-7
 3F7908-1 lb, no ts jar
 WGL16391-1 SF7906-6
 WGL16391-2 SF7906-6
 WGL16391-3 SF7906-6
 WGL16391-4 SF7975-1

Date: 11/15/12

Accepted by: 

Date: 11/14/12

Entered by: 

KATAHDIN ANALYTICAL SERVICES, INC.

TOTAL SOLIDS: ASTM D2216 - PQL: 0.10%		TOTAL VOLATILE SOLIDS: SM2540 G / E160.4 - PQL 0.10%	
ANALYST IN: KP	ANALYST OUT: KP	TRUE WT (g)	INITIAL WT (g)
DATE IN: 11/13/12	DATE OUT: 11/14/12	100.0000	1.0050
TIME IN: 0921	TIME OUT: 0726	50.0000	49.9997
TEMP IN: 118	TEMP OUT: 103	50.0000	9.9997
Oven ID: 107N0042	Muffle Oven ID: 030807 (assigned)	100.0000	99.9997
CHECKED BY: [Signature]	DATE: 11/14/12	DISH DRY WT (g)	DISH WET WT (g)
SAMPLE ID	DISH ID	DISH WT (g)	DISH WET WT (g)
WG116391-1 Blank	1		
-2 LOS	2		
SF7906-6	3		
-6 DUP	4		
-7	5	TR 1.55	
SF7907-1	6	TB 1.55	
-2	7		
-3	8		
-4	9		
-5	10		
-6	11		
-7	12		
-8	13		
-9	14		
-10	15		
-11	16		
-12	17		
SF7908-1	18	TR 1.55	
-2	19		
-3	20		
SF7934-1	21		
SF7950-1	22		
SF7975-1	23		
-1 DUP	24		

Handwritten notes and signatures in the bottom left corner.

KP 11/14/12